

# Django Essentials Samuel Dazon

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*Test-Driven Development with Python* - Harry Percival  
2017-08-02

By taking you through the development of a real web application from beginning to end, the second edition of this hands-on guide demonstrates the practical advantages of test-driven development (TDD)

with Python. You'll learn how to write and run tests before building each part of your app, and then develop the minimum amount of code required to pass those tests. The result? Clean code that works. In the process, you'll learn the basics of Django, Selenium, Git, jQuery, and Mock, along with

current web development techniques. If you're ready to take your Python skills to the next level, this book—updated for Python 3.6—clearly demonstrates how TDD encourages simple designs and inspires confidence. Dive into the TDD workflow, including the unit test/code cycle and refactoring Use unit tests for classes and functions, and functional tests for user interactions within the browser Learn when and how to use mock objects, and the pros and cons of isolated vs. integrated tests Test and automate your deployments with a staging server Apply tests to the third-party plugins you integrate into your site Run tests automatically by using a Continuous Integration environment Use TDD to build a REST API with a front-end Ajax interface

### **40 Algorithms Every Programmer Should Know -**

Imran Ahmad 2020-06-12  
Learn algorithms for solving classic computer science problems with this concise guide covering everything from

fundamental algorithms, such as sorting and searching, to modern algorithms used in machine learning and cryptography Key Features Learn the techniques you need to know to design algorithms for solving complex problems Become familiar with neural networks and deep learning techniques Explore different types of algorithms and choose the right data structures for their optimal implementation Book Description Algorithms have always played an important role in both the science and practice of computing. Beyond traditional computing, the ability to use algorithms to solve real-world problems is an important skill that any developer or programmer must have. This book will help you not only to develop the skills to select and use an algorithm to solve real-world problems but also to understand how it works. You'll start with an introduction to algorithms and discover various algorithm design techniques, before exploring how to implement

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different types of algorithms, such as searching and sorting, with the help of practical examples. As you advance to a more complex set of algorithms, you'll learn about linear programming, page ranking, and graphs, and even work with machine learning algorithms, understanding the math and logic behind them. Further on, case studies such as weather prediction, tweet clustering, and movie recommendation engines will show you how to apply these algorithms optimally. Finally, you'll become well versed in techniques that enable parallel processing, giving you the ability to use these algorithms for compute-intensive tasks. By the end of this book, you'll have become adept at solving real-world computational problems by using a wide range of algorithms. What you will learn

Explore existing data structures and algorithms found in Python libraries

Implement graph algorithms for fraud detection using network analysis

Work with machine learning

algorithms to cluster similar tweets and process Twitter data in real time

Predict the weather using supervised learning algorithms

Use neural networks for object detection

Create a recommendation engine that suggests relevant movies to subscribers

Implement foolproof security using symmetric and asymmetric encryption on Google Cloud Platform (GCP)

Who this book is for

This book is for programmers or developers who want to understand the use of algorithms for problem-solving and writing efficient code. Whether you are a beginner looking to learn the most commonly used algorithms in a clear and concise way or an experienced programmer looking to explore cutting-edge algorithms in data science, machine learning, and cryptography, you'll find this book useful. Although Python programming experience is a must, knowledge of data science will be helpful but not necessary.

## **Designing Microservices**

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**Using Django** - Shayank Jain  
2020-04-28

A step-by-step that will help you build Microservices architecture using Django and Python

**KEY FEATURES**

- a- Understand in-depth the fundamentals of Microservices
- a- Learn how to create and use Django APIs
- a- Use web technology such as Nginx, Gunicorn, UWSGI, and Postgresql to deploy a Django project

**DESCRIPTION**

Microservices architectures solve the multiple problems of software architecture. Django is a full-stack development framework, written in python. This book includes everything necessary for web application development; from the user views to the information storage: model, persistence, relationships, controllers, forms, validations, rest API and a very useful back office. Furthermore, the book will show how to build production-ready microservices. It will help you create restful APIs and get familiar with Redis and Celery. Towards the end, the book will show how to secure

these services and deploy these microservices using Django. Lastly, it will show how to scale our services.

**WHAT WILL YOU LEARN**

- a- Understand the basics of Python, Django, and Microservices
- a- Learn how to deploy Microservices with Django
- a- Get familiar with Microservices Architecture - Designing, Principles, and Requirements
- a- Implement Asynchronous task, JWT API Authentication and AWS Serverless with Microservice architecture

**WHO THIS BOOK IS FOR**

This book is for those beginners who want to make their careers in software development. It starts from the basics of python and Django, takes the reader to the Microservices architecture.

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1. Basic of Python
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Practice About the Author  
Shayank Jain is a software  
developer and data analyst. He  
is strongly passionate about  
coding and architectural design.  
He has more than 6.5 years of  
professional experience in  
developing scalable software  
solutions for various  
organizations. He has been  
programming since the age of  
16 and has developed software  
for mobile, web, hardware  
gaming and  
standalone applications. After  
getting his hands dirty with  
programming, he found many  
new ways to debug and deploy  
the code successfully with  
minimal time constraints. After  
reading and implementing, he  
found out that many critical  
concepts can be implemented  
easily in programming with  
correct and focused thinking.  
His research interests include  
information security,

cryptography, analysis, design,  
and implementation of  
algorithms. He has extensively  
worked with python and  
implemented new ideas on  
various projects in his free  
time. He is also active in the  
computer science and  
education community. Through  
this book, he wants to share  
these methodologies and tricks  
with the beginners. Outside  
work, Shayank spends his  
spare time helping, coaching,  
and mentoring young people in  
taking up careers in  
technology. Your Blog links:  
[https://shayankit.wixsite.com/in  
tro](https://shayankit.wixsite.com/intro)25Your LinkedIn Profile:  
[https://www.linkedin.com/in/sh  
ayankjain](https://www.linkedin.com/in/shayankjain)  
*Django for Professionals* -  
William S. Vincent 2022-05-19  
Completely updated for Django  
4.0! Django for Professionals  
takes your web development  
skills to the next level, teaching  
you how to build production-  
ready websites with Python  
and Django. Once you have  
learned the basics of Django  
there is a massive gap between  
building simple "toy apps" and  
what it takes to build a

"production-ready" web application suitable for deployment to thousands or even millions of users. In the book you'll learn how to: \*

- Build a Bookstore website from scratch
- Use Docker and PostgreSQL locally to mimic production settings
- Implement advanced user registration with email
- Customize permissions to control user access
- Write comprehensive tests
- Adopt advanced security and performance improvements
- Add search and file/image uploads
- Deploy with confidence

If you want to take advantage of all that Django has to offer, Django for Professionals is a comprehensive best practices guide to building and deploying modern websites.

**Web Development with Django** - Ben Shaw 2021-02-25

Django is a popular Python-based framework for web application development. Like Python, Django is easy for beginners to learn and enables constant progress. This book will help aspiring web

developers gain the skills to use Django to develop robust web apps.

**Web Development with Django Cookbook** - Aidas Bendoraitis 2016-01-28

Over 70 practical recipes to help you create scalable websites using the Django 1.8 framework

**About This Book**

This is the latest book on the market that will help you take advantage of the new features added to Django 1.8

This book consists of recipes of varying complexities to help you create multilingual, responsive, and scalable websites with Django

This updated edition teaches you major Django functions and will help you improve your skills by developing models, forms, views, and templates

**Who This Book Is For**

This book is for intermediate-level and professional Django users who need to build projects that are multilingual, functional on devices of different screen sizes, and that scale over a period of time. If you have created websites with Django but you want to sharpen your knowledge and learn some

good approaches to different aspects of web development, you should definitely read this book. What You Will Learn Get started with the basic configuration necessary to start any Django project Build a database structure out of reusable model mixins Manage forms and views and get to know some useful patterns that are used to create them Create handy template filters and tags that you can reuse in every project Integrate your own functionality into the Django CMS Manage hierarchical structures with MPTT Import data from local sources and external web services as well as exporting your data to third parties Implement a multilingual search with Haystack Test and deploy your project efficiently In Detail Django is a web framework that was designed to strike a balance between rapid web development and high performance. It has the capacity to handle applications with high levels of user traffic and interaction, and can integrate with massive

databases on the backend, constantly collecting and processing data in real time. Through this book, you'll discover that collecting data from different sources and providing it to others in different formats isn't as difficult as you thought. It follows a task-based approach to guide you through all the web development processes using the Django framework. We'll start by setting up the virtual environment for a Django project and configuring it. Then you'll learn to write reusable pieces of code for your models and find out how to manage database schema changes using South migrations. After that, we'll take you through working with forms and views to enter and list data. With practical examples on using templates and JavaScript together, you will discover how to create the best user experience. In the final chapters, you'll be introduced to some programming and debugging tricks and finally, you will be shown how to test and deploy

the project to a remote dedicated server. By the end of this book, you will have a good understanding of the new features added to Django 1.8 and be an expert at web development processes. Style and approach Every chapter consists of practical examples and a mix of basic and advanced recipes that will guide you through the entire web development process, starting from project configuration and taking you right through to deployment. *Modern Java in Action* - Raoul-Gabriel Urma 2018-09-26 Summary Manning's bestselling Java 8 book has been revised for Java 9! In *Modern Java in Action*, you'll build on your existing Java language skills with the newest features and techniques. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Modern applications take advantage of innovative designs, including microservices, reactive architectures, and streaming

data. Modern Java features like lambdas, streams, and the long-awaited Java Module System make implementing these designs significantly easier. It's time to upgrade your skills and meet these challenges head on! About the Book *Modern Java in Action* connects new features of the Java language with their practical applications. Using crystal-clear examples and careful attention to detail, this book respects your time. It will help you expand your existing knowledge of core Java as you master modern additions like the Streams API and the Java Module System, explore new approaches to concurrency, and learn how functional concepts can help you write code that's easier to read and maintain. What's inside Thoroughly revised edition of Manning's bestselling Java 8 in *Action* New features in Java 8, Java 9, and beyond Streaming data and reactive programming The Java Module System About the Reader Written for developers familiar with core Java features. About the Author

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Raoul-Gabriel Urma is CEO of Cambridge Spark. Mario Fusco is a senior software engineer at Red Hat. Alan Mycroft is a University of Cambridge computer science professor; he cofounded the Raspberry Pi Foundation. Table of Contents  
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**Foundations of Modern Networking** - William Stallings  
2015-10-27

Foundations of Modern Networking is a comprehensive, unified survey of modern networking technology and applications for today's professionals, managers, and students. Dr. William Stallings offers clear and well-organized coverage of five key technologies that are transforming networks: Software-Defined Networks (SDN), Network Functions Virtualization (NFV), Quality of Experience (QoE), the Internet of Things (IoT), and cloudbased services. Dr. Stallings reviews

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current network ecosystems and the challenges they face—from Big Data and mobility to security and complexity. Next, he offers complete, self-contained coverage of each new set of technologies: how they work, how they are architected, and how they can be applied to solve real problems. Dr. Stallings presents a chapter-length analysis of emerging security issues in modern networks. He concludes with an up-to date discussion of networking careers, including important recent changes in roles and skill requirements. Coverage: Elements of the modern networking ecosystem: technologies, architecture, services, and applications Evolving requirements of current network environments SDN: concepts, rationale, applications, and standards across data, control, and application planes OpenFlow, OpenDaylight, and other key SDN technologies Network functions virtualization: concepts, technology, applications, and software

defined infrastructure Ensuring customer Quality of Experience (QoE) with interactive video and multimedia network traffic Cloud networking: services, deployment models, architecture, and linkages to SDN and NFV IoT and fog computing in depth: key components of IoT-enabled devices, model architectures, and example implementations Securing SDN, NFV, cloud, and IoT environments Career preparation and ongoing education for tomorrow's networking careers Key Features: Strong coverage of unifying principles and practical techniques More than a hundred figures that clarify key concepts Web support at [williamstallings.com/Network/](http://williamstallings.com/Network/) QR codes throughout, linking to the website and other resources Keyword/acronym lists, recommended readings, and glossary Margin note definitions of key words throughout the text *Django RESTful Web Services* - Gaston C. Hillar 2018-01-25 Design, build and test RESTful web services with the Django

framework and Python Key Features Create efficient real-world RESTful web services with the latest Django framework Authenticate, secure, and integrate third-party packages efficiently in your Web Services Leverage the power of Python for faster Web Service development Book Description Django is a Python web framework that makes the web development process very easy. It reduces the amount of trivial code, which simplifies the creation of web applications and results in faster development. It is very powerful and a great choice for creating RESTful web services. If you are a Python developer and want to efficiently create RESTful web services with Django for your apps, then this is the right book for you. The book starts off by showing you how to install and configure the environment, required software, and tools to create RESTful web services with Django and the Django REST framework. We then move on to working with advanced serialization and migrations to

interact with SQLite and non-SQL data sources. We will use the features included in the Django REST framework to improve our simple web service. Further, we will create API views to process diverse HTTP requests on objects, go through relationships and hyperlinked API management, and then discover the necessary steps to include security and permissions related to data models and APIs. We will also apply throttling rules and run tests to check that versioning works as expected. Next we will run automated tests to improve code coverage. By the end of the book, you will be able to build RESTful web services with Django. What you will learn The best way to build a RESTful Web Service or API with Django and the Django REST Framework Develop complex RESTful APIs from scratch with Django and the Django REST Framework Work with either SQL or NoSQL data sources Design RESTful Web Services based on application requirements Use third-party

packages and extensions to perform common tasks Create automated tests for RESTful web services Debug, test, and profile RESTful web services with Django and the Django REST Framework Who this book is for This book is for Python developers who want to create RESTful web services with Django; you need to have a basic working knowledge of Django but no previous experience with RESTful web services is required.

### **Build Your First Website with Python and Django -**

Nigel George 2017-10 Build your first website with Python and Django will teach you step by step, and in easy to understand language, how to design, build and deploy a complete website. Python has a strong reputation for being the easiest programming language to learn and paired with Django, they make a perfect platform for programmers to learn web application development. Beginners and programmers new to Django alike will get something out of this book. Each chapter is

written in the same easy to understand style and each line of code is explained so you can gain a full understanding of what is going on in the application. The book concludes with full instructions on how to deploy the website you have created to the Internet.

[The Definitive Guide to Django](#) - Jacob Kaplan-Moss 2008-03-08

Django, the Python-based Web development framework, is one of the hottest topics in Web development today. Its creator (and co-author of this book) Adrian Holovaty has built a compelling array of Web applications using Django, including <http://chicagocrime.org>.

Django creator Adrian Holovaty and lead developer Jacob Kaplan-Moss have created this book as the definitive guide to the technology. Beginning with fundamentals such as installation and configuration, the book tackles sophisticated features of Django, such as outputting non-HTML content such as RSS feeds and PDFs, caching, and user

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management. Also includes a detailed reference to Django's many configuration options and commands.

## **Enterprise Application Development with C# 9 and .NET 5** - Ravindra Akella

2021-03-19

Become a professional .NET developer by learning expert techniques for building enterprise-grade applications

**Key Features** Explore the advanced features of C# and .NET 5 to enhance your code and productivity

Follow clear and easy instructions for building an end-to-end enterprise application

Learn how to build scalable web applications and host them on the cloud

**Book Description** .NET Core is one of the most popular programming platforms in the world for an increasingly large community of developers thanks to its excellent cross-platform support. This book will show you how to confidently use the features of .NET 5 with C# 9 to build robust enterprise applications. Throughout the book, you'll work on creating

an enterprise app and adding a key component to the app with each chapter, before finally getting it ready for testing and deployment. You'll learn concepts relating to advanced data structures, the Entity Framework Core, parallel programming, and dependency injection. As you progress, you'll cover various authentication and authorization schemes provided by .NET Core to make your apps and APIs secure. Next, you'll build web apps using ASP.NET Core 5 and deploy them on the cloud while working with various cloud components using Azure. The book then shows you how to use the latest Microsoft Visual Studio 2019 and C# 9 to simplify developer tasks, and also explores tips and tricks in Visual Studio 2019 to improve your productivity. Later, you'll discover various testing techniques such as unit testing and performance testing as well as different methods to deploy enterprise apps. By the end of this book, you'll be able to create enterprise apps using

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the powerful features of .NET 5 and deploy them on the cloud. What you will learn Design enterprise apps by making the most of the latest features of .NET 5 Discover different layers of an app, such as the data layer, API layer, and web layer Explore end-to-end architecture, implement an enterprise web app using .NET and C# 9, and deploy the app on Azure Focus on the core concepts of web application development such as dependency injection, caching, logging, configuration, and authentication, and implement them in .NET 5 Integrate the new .NET 5 health and performance check APIs with your app Understand how .NET 5 works and contribute to the .NET 5 platform Who this book is for If you are a developer, architect, or senior programmer who wants to leverage the features of .NET 5 and the C# language, as well as grasp essential techniques to build your skills, then this C# .NET 5 book is for you. Beginner to intermediate-level knowledge of the .NET

framework and C# programming is required to understand the concepts covered in this book more effectively.

*Engineering Analysis with SOLIDWORKS Simulation 2016* - Paul Kurowski 2016-02  
*Engineering Analysis with SOLIDWORKS Simulation 2016* goes beyond the standard software manual. Its unique approach concurrently introduces you to the SOLIDWORKS Simulation 2016 software and the fundamentals of Finite Element Analysis (FEA) through hands-on exercises. A number of projects are presented using commonly used parts to illustrate the analysis features of SOLIDWORKS Simulation. Each chapter is designed to build on the skills, experiences and understanding gained from the previous chapters.  
*Build a Website With Django 3* - Nigel George 2020-01-01  
*Build a website with Django 3* is the fourth edition of my popular Django beginners book, fully updated for Django 3 Not only has the book been

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updated to cover the latest version of Django, but I've added install instructions for macOS users. Your complete introduction to Django 3 Build a website with Django 3 covers all the core concepts of Django to get you up and running fast:

- Why Django is the premier Python framework for developing web applications -
- The big picture - how Django is structured - Django Models - Django Views - Django Templates - The Django admin -
- Generic views - Simple forms - Complex forms and model forms - Managing Users - Restricted content - File uploads - Sending email -
- Deploying a Django application

Build a real website This book is not about boring theory. You'll be building a fully functioning website as you learn Django. I even show you how to deploy your website to the Internet for free.

*Workflow Automation with Microsoft Power Automate* - Aaron Guilmette 2020-09-18

Microsoft Power Automate is a workflow automation solution included in Microsoft 365. This

book explores the core concepts of workflow automation, such as working with connectors, triggers, and actions, along with their practical implementation in automating business tasks and simplifying digital processes to boost enterprise productivity.

[Lightweight Django](#) - Julia Elman 2014-11-03

How can you take advantage of the Django framework to integrate complex client-side interactions and real-time features into your web applications? Through a series of rapid application development projects, this hands-on book shows experienced Django developers how to include REST APIs, WebSockets, and client-side MVC frameworks such as Backbone.js into new or existing projects. Learn how to make the most of Django's decoupled design by choosing the components you need to build the lightweight applications you want. Once you finish this book, you'll know how to build single-page applications that respond to

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interactions in real time. If you're familiar with Python and JavaScript, you're good to go. Learn a lightweight approach for starting a new Django project Break reusable applications into smaller services that communicate with one another Create a static, rapid prototyping site as a scaffold for websites and applications Build a REST API with django-rest-framework Learn how to use Django with the Backbone.js MVC framework Create a single-page web application on top of your REST API Integrate real-time features with WebSockets and the Tornado networking library Use the book's code-driven examples in your own projects

Getting Started with Django - Samuel Dauzon 2014-06-14 This book features a step-by-step approach that shows you how to program, create, and improve the quality of web applications using Django, with the help of Python. This is an ideal book for developers who want to improve the quality and maintenance of their web

application, and who already have knowledge of Python and web development.

Clean Code in Python - Mariano Anaya 2021-01-06 Tackle inefficiencies and errors the Pythonic way Key Features Enhance your coding skills using the new features introduced in Python 3.9 Implement the refactoring techniques and SOLID principles in Python Apply microservices to your legacy systems by implementing practical techniques Book Description Experienced professionals in every field face several instances of disorganization, poor readability, and testability due to unstructured code. With updated code and revised content aligned to the new features of Python 3.9, this second edition of Clean Code in Python will provide you with all the tools you need to overcome these obstacles and manage your projects successfully. The book begins by describing the basic elements of writing clean code and how it plays a key role in Python programming.

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You will learn about writing efficient and readable code using the Python standard library and best practices for software design. The book discusses object-oriented programming in Python and shows you how to use objects with descriptors and generators. It will also show you the design principles of software testing and how to resolve problems by implementing software design patterns in your code. In the concluding chapter, we break down a monolithic application into a microservices-based one starting from the code as the basis for a solid platform. By the end of this clean code book, you will be proficient in applying industry-approved coding practices to design clean, sustainable, and readable real-world Python code. What you will learn Set up a productive development environment by leveraging automatic tools Leverage the magic methods in Python to write better code, abstracting complexity away and encapsulating details Create

advanced object-oriented designs using unique features of Python, such as descriptors Eliminate duplicated code by creating powerful abstractions using software engineering principles of object-oriented design Create Python-specific solutions using decorators and descriptors Refactor code effectively with the help of unit tests Build the foundations for solid architecture with a clean code base as its cornerstone Who this book is for This book is designed to benefit new as well as experienced programmers. It will appeal to team leads, software architects and senior software engineers who would like to write Pythonic code to save on costs and improve efficiency. The book assumes that you have a strong understanding of programming [Visual Studio Code for Python Programmers](#) - April Speight 2021-06-04 Become proficient and efficient with Visual Studio Code and learn how to integrate all your external tools! Visual Studio

Code for Python Programmers helps Python developers become not just familiar, but productive in Visual Studio Code. To start, you'll find the steps for installing Visual Studio Code on Windows, Mac and Linux platforms, along with an introduction to the editing features of the workspace. Coverage of more advanced functionality includes managing source code, debugging, unit testing, and Jupyter Notebook support. The book finishes with a walk-through of real-world projects which utilize Visual Studio Code features introduced in the book. For developers, the choice of an editor is a very personal one. You have idiosyncratic needs and wants that are unique to you as a developer. This book will help you learn how to customize Visual Studio Code to meet your needs and Python development workflow. Introduces you to the features of the Visual Studio Code workspace and how those features can be customized Demonstrates how Visual

Studio Code allows you to choose your structure according to your needs Covers editing code in Python, including syntax highlighting, code completion, object definition, refactoring, and code navigation Describes Git integration and how to perform common Git functions (commits, checkouts, branches, and merges) from within Visual Studio Code Highlights debugging features for Python developers A final section on Real World Applications will step you through several examples (and features integration with Django, Flask, Jupyter Notebook, Docker, and Azure), so you can hit the ground running with Visual Studio Code.

### **Working Effectively with Legacy Code** - Michael

Feathers 2004-09-22

Get more out of your legacy systems: more performance, functionality, reliability, and manageability Is your code easy to change? Can you get nearly instantaneous feedback when you do change it? Do you understand it? If the answer to

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any of these questions is no, you have legacy code, and it is draining time and money away from your development efforts. In this book, Michael Feathers offers start-to-finish strategies for working more effectively with large, untested legacy code bases. This book draws on material Michael created for his renowned Object Mentor seminars: techniques Michael has used in mentoring to help hundreds of developers, technical managers, and testers bring their legacy systems under control. The topics covered include Understanding the mechanics of software change: adding features, fixing bugs, improving design, optimizing performance Getting legacy code into a test harness Writing tests that protect you against introducing new problems Techniques that can be used with any language or platform—with examples in Java, C++, C, and C# Accurately identifying where code changes need to be made Coping with legacy systems that aren't object-oriented

Handling applications that don't seem to have any structure This book also includes a catalog of twenty-four dependency-breaking techniques that help you work with program elements in isolation and make safer changes.

*Architecture Patterns with Python* - Harry Percival  
2020-03-05

As Python continues to grow in popularity, projects are becoming larger and more complex. Many Python developers are now taking an interest in high-level software design patterns such as hexagonal/clean architecture, event-driven architecture, and the strategic patterns prescribed by domain-driven design (DDD). But translating those patterns into Python isn't always straightforward. With this hands-on guide, Harry Percival and Bob Gregory from MADE.com introduce proven architectural design patterns to help Python developers manage application complexity—and get the most value out of their test suites.

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Each pattern is illustrated with concrete examples in beautiful, idiomatic Python, avoiding some of the verbosity of Java and C# syntax. Patterns include: Dependency inversion and its links to ports and adapters (hexagonal/clean architecture) Domain-driven design's distinction between entities, value objects, and aggregates Repository and Unit of Work patterns for persistent storage Events, commands, and the message bus Command-query responsibility segregation (CQRS) Event-driven architecture and reactive microservices

### **Django Design Patterns and Best Practices** - Arun

Ravindran 2015-03-31

If you want to learn how best to utilize commonly found patterns and learn best practices in developing applications with Django, this is the book for you. This book, like Django itself, is accessible to amateur and professional developers alike and assumes little in the way of prior experience. Although written

for Python 3, the majority of the code in this book works in Python 2 or can be easily translated.

### **Building Websites with Django** - Awanish Ranjan 2021-02-16

A beginner's guide that will help you get familiar with Django for web development.

**KEY FEATURES** ● Learn to build websites with a strong blend of concepts and practical learning. ● Set up your public website with advanced functionalities from scratch. ●

Explore Django architecture, components, navigation panel and templates. **DESCRIPTION**

'Building Websites with

Django' book teaches readers to develop their high-quality,

feature-rich website by learning Django and its various

tools. You will learn the best techniques to develop a

dynamic website, right from scratch. This book focuses not

only on just creating a

particular application but

rather develops a strong

understanding of theoretical

concepts with rich examples.

You will learn to troubleshoot

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errors, develop navigation panels and add advanced functionalities like deploying on heroku server. You will read about models, templates, different types of views. You will learn to create apps and learn how to integrate different apps. By the end of this book, You will create a project from scratch and will deploy it as a public website by yourself.

**WHAT YOU WILL LEARN** ● Create a Django project from scratch and deploy them as a public website. ● Work with Django components such as Model, View, and Template. ● Interact with the database using Query Sets. ● Deploy your Django application for free on Heroku. ● Learn how to use Django's built-in authentication and authorization module effectively. **WHO THIS BOOK IS FOR** This book is for early entrepreneurs, beginners, software professionals, bloggers and hobbyists who want to create their online presence on their own without having any prior technical knowledge about web tools.

**TABLE OF CONTENTS** 1. Introduction to Django 2. An Overview of the MTV Architecture 3. Understanding Django Settings 4. Django Admin Utility 5. Interacting with the Database using Query Sets 6. Enhancing your Project 7. Understanding Models 8. Django Views 9. Django Templates 10. URL and Regex 11. Forms in Django 12. Setting up a Project 13. The Account app 14. The Genre app 15. The Post app 16. Deploying the Website

**Git** - Samuel Dauzon 2018

Este libro se dirige principalmente a los desarrolladores y jefes de proyecto pero también a los profesionales llamados a modificar código fuente (Diseñadores gráficos, Webdesigner, etc.). El libro comienza por presentar la historia de las soluciones de gestión de versiones y su interés. Luego permite al lector instalar y configurar Git y utilizarlo a través de cinco capítulos de forma progresiva (funcionamiento de las ramas, compartición de un repositorio,

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herramientas internas ...) Un capítulo permite aprender a utilizar git-flow, un método para gestionar eficazmente las diferentes versiones de un proyecto empresarial. Los dos últimos capítulos presentan la gestión de versiones de forma práctica utilizando dos escenarios implementados por desarrolladores. El primer escenario toma las bases de uso de Git y muestra el uso de sus principales comandos en un entorno casi real. El segundo escenario presenta un equipo de desarrolladores : con la instalación de GitLab, hasta un uso del método git-flow por el equipo, este capítulo detalla las principales etapas por las que el equipo debe pasar para versionar un proyecto existente. En el anexo, una guía rápida permite visualizar rápidamente los principales comandos y sus opciones.

### **Optimization in Practice with MATLAB** - Achille

Messac 2015-03-19

This textbook is designed for students and industry practitioners for a first course in optimization integrating

MATLAB® software.

### **Django Design Patterns and Best Practices** - Arun

Ravindran 2018-05-31

Build maintainable websites with elegant Django design patterns and modern best practices Key Features Explore aspects of Django from Models and Views to testing and deployment Understand the nuances of web development such as browser attack and data design Walk through various asynchronous tools such as Celery and Channels Book Description Building secure and maintainable web applications requires comprehensive knowledge. The second edition of this book not only sheds light on Django, but also encapsulates years of experience in the form of design patterns and best practices. Rather than sticking to GoF design patterns, the book looks at higher-level patterns. Using the latest version of Django and Python, you'll learn about Channels and asyncio while building a solid conceptual background. The book compares design choices

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to help you make everyday decisions faster in a rapidly changing environment. You'll first learn about various architectural patterns, many of which are used to build Django. You'll start with building a fun superhero project by gathering the requirements, creating mockups, and setting up the project. Through project-guided examples, you'll explore the Model, View, templates, workflows, and code reusability techniques. In addition to this, you'll learn practical Python coding techniques in Django that'll enable you to tackle problems related to complex topics such as legacy coding, data modeling, and code reusability. You'll discover API design principles and best practices, and understand the need for asynchronous workflows. During this journey, you'll study popular Python code testing techniques in Django, various web security threats and their countermeasures, and the monitoring and performance of your application. What you will learn Make use of common

design patterns to help you write better code Implement best practices and idioms in this rapidly evolving framework Deal with legacy code and debugging Use asynchronous tools such as Celery, Channels, and asyncio Use patterns while designing API interfaces with the Django REST Framework Reduce the maintenance burden with well-tested, cleaner code Host, deploy, and secure your Django projects Who this book is for This book is for you whether you're new to Django or just want to learn its best practices. You do not have to be an expert in Django or Python. No prior knowledge of patterns is expected for reading this book but it would be helpful.

*Django 2 Web Development Cookbook* - Jake Kronika  
2018-10-31

Django is a framework designed to balance rapid web development with high performance. It handles high levels of user traffic and interaction, integrates with a variety of databases, and collects and processes data in

real time. This book follows a task-based approach to guide you through developing with the Django 2.1 framework, starting with ...

### **Django for Beginners -**

William S. Vincent 2021-12-16  
Completely updated for Django 4.0! Django for Beginners is a project-based introduction to Django, the popular Python-based web framework. Suitable for total beginners who have never built a website before as well as professional programmers looking for a fast-paced guide to modern web development and Django fundamentals. In the book you'll learn how to: \* Build 5 websites from scratch, including a Blog and Newspaper \* Deploy online using security best practices \* Customize the look and feel of your sites \* Write tests and run them for all your code \* Integrate user authentication, email, and custom user models \* Add permissions and authorizations to make your app more secure If you're curious about Python-based web development, Django for

Beginners is a best-practices guide to writing and deploying your own websites quickly.

[Python Data Structures and Algorithms](#) - Benjamin Baka  
2017-05-30

Implement classic and functional data structures and algorithms using Python About This Book A step by step guide, which will provide you with a thorough discussion on the analysis and design of fundamental Python data structures. Get a better understanding of advanced Python concepts such as big-o notation, dynamic programming, and functional data structures. Explore illustrations to present data structures and algorithms, as well as their analysis, in a clear, visual manner. Who This Book Is For The book will appeal to Python developers. A basic knowledge of Python is expected. What You Will Learn Gain a solid understanding of Python data structures. Build sophisticated data applications. Understand the common programming patterns and algorithms used in Python data

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science. Write efficient robust code. In Detail Data structures allow you to organize data in a particular way efficiently. They are critical to any problem, provide a complete solution, and act like reusable code. In this book, you will learn the essential Python data structures and the most common algorithms. With this easy-to-read book, you will be able to understand the power of linked lists, double linked lists, and circular linked lists. You will be able to create complex data structures such as graphs, stacks and queues. We will explore the application of binary searches and binary search trees. You will learn the common techniques and structures used in tasks such as preprocessing, modeling, and transforming data. We will also discuss how to organize your code in a manageable, consistent, and extendable way. The book will explore in detail sorting algorithms such as bubble sort, selection sort, insertion sort, and merge sort. By the end of the book, you will learn how to build components

that are easy to understand, debug, and use in different applications. Style and Approach The easy-to-read book with its fast-paced nature will improve the productivity of Python programmers and improve the performance of Python applications.

*Hiking Oregon's History* - William L. Sullivan 1999-03-01

Mastering Object-Oriented Python - Steven F. Lott 2019-06-14

Gain comprehensive insights into programming practices, and code portability and reuse to build flexible and maintainable apps using object-oriented principles Key Features Extend core OOP techniques to increase integration of classes created with Python Explore various Python libraries for handling persistence and object serialization Learn alternative approaches for solving programming problems, with different attributes to address your problem domain Book Description Object-oriented programming (OOP) is a

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relatively complex discipline to master, and it can be difficult to see how general principles apply to each language's unique features. With the help of the latest edition of *Mastering Objected-Oriented Python*, you'll be shown how to effectively implement OOP in Python, and even explore Python 3.x. Complete with practical examples, the book guides you through the advanced concepts of OOP in Python, and demonstrates how you can apply them to solve complex problems in OOP. You will learn how to create high-quality Python programs by exploring design alternatives and determining which design offers the best performance. Next, you'll work through special methods for handling simple object conversions and also learn about hashing and comparison of objects. As you cover later chapters, you'll discover how essential it is to locate the best algorithms and optimal data structures for developing robust solutions to programming problems with minimal computer processing.

Finally, the book will assist you in leveraging various Python features by implementing object-oriented designs in your programs. By the end of this book, you will have learned a number of alternate approaches with different attributes to confidently solve programming problems in Python. What you will learnExplore a variety of different design patterns for the `__init__()` methodLearn to use Flask to build a RESTful web serviceDiscover SOLID design patterns and principlesUse the features of Python 3's abstract baseCreate classes for your own applicationsDesign testable code using `pytest` and `fixtures`Understand how to design context managers that leverage the `'with'` statementCreate a new type of collection using standard library and design techniquesDevelop new number types above and beyond the built-in classes of numbersWho this book is for This book is for developers who want to use Python to create

efficient programs. A good understanding of Python programming is required to make the most out of this book. Knowledge of concepts related to object-oriented design patterns will also be useful.

Mastering Django: Core - Nigel George 2016-12-23

Delivers absolutely everything you will ever need to know to become a master Django programmer About This Book Gain a complete understanding of Django—the most popular, Python-based web framework in the world Gain the skills to successfully designing, developing, and deploying your app This book is packaged with fully described code so you can learn the fundamentals and the advanced topics to get a complete understanding of all of Django's core functions Who This Book Is For This book assumes you have a basic understanding of the Internet and programming. Experience with Python or Django would be an advantage, but is not necessary. It is ideal for beginner to intermediate programmers looking for a fast,

secure, scalable, and maintainable alternative web development platform to those based on PHP, Java, and dotNET. What You Will Learn Use Django to access user-submitted form data, validate it, and work with it Get to know advanced URLconf tips and tricks Extend Django's template system with custom code Define models and use the database API to create, retrieve, update, and delete records Fully extend and customize the default implementation as per your project's needs Test and deploy your Django application Get to know more about Django's session, cache Framework, and middleware In Detail Mastering Django: Core is a completely revised and updated version of the original Django Book, written by Adrian Holovaty and Jacob Kaplan-Moss - the creators of Django. The main goal of this book is to make you a Django expert. By reading this book, you'll learn the skills needed to develop powerful websites quickly, with code that is clean and easy to

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maintain. This book is also a programmer's manual that provides complete coverage of the current Long Term Support (LTS) version of Django. For developers creating applications for commercial and business critical deployments, *Mastering Django: Core* provides a complete, up-to-date resource for Django 1.8 LTS with a stable code-base, security fixes and support out to 2018. Style and approach This comprehensive step-by-step practical guide offers a thorough understanding of all the web development concepts related to Django. In addition to explaining the features of Django, this book provides real-world experience on how these features fit together to build extraordinary apps. [Building Minecraft Server Modifications](#) - Cody M. Sommer 2013-09-25 Modifying Minecraft with the Bukkit API is a unique guide that will walk you through the entire process of developing mods for your Minecraft server. [Modifying Minecraft](#)

with the Bukkit API is great for anyone who is interested in customizing their Minecraft server. Whether you are new to programming, Java, Bukkit, or even Minecraft itself, this book has you covered. All you need is a valid Minecraft account. If you are interested in software development then this book will help you get started. If you are simply interested in playing Minecraft with your friends then this book will help you make that experience even more enjoyable.

[Django 3 By Example](#) - Antonio Melé 2020-03-31

Learn Django 3 with four end-to-end web projects Key Features Learn Django 3 by building real-world web applications from scratch in Python, using coding best practices Integrate other technologies into your application with clear, step-by-step explanations and comprehensive example code Implement advanced functionalities like a full-text search engine, a user activity stream, or a recommendation engine Add real-time features

with Django Channels and WebSockets

**Book Description**

If you want to learn the entire process of developing professional web applications with Python and Django, then this book is for you. In the process of building four professional Django projects, you will learn about Django 3 features, how to solve common web development problems, how to implement best practices, and how to successfully deploy your applications. In this book, you will build a blog application, a social image bookmarking website, an online shop, and an e-learning platform. Step-by-step guidance will teach you how to integrate popular technologies, enhance your applications with AJAX, create RESTful APIs, and set up a production environment for your Django projects. By the end of this book, you will have mastered Django 3 by building advanced web applications. What you will learn

Build real-world web applications

Learn Django essentials, including models, views, ORM,

templates, URLs, forms, and authentication

Implement advanced features such as custom model fields, custom template tags, cache, middleware, localization, and more

Create complex functionalities, such as AJAX interactions, social authentication, a full-text search engine, a payment system, a CMS, a RESTful API, and more

Integrate other technologies, including Redis, Celery, RabbitMQ, PostgreSQL, and Channels, into your projects

Deploy Django projects in production using NGINX, uWSGI, and Daphne

Who this book is for

This book is intended for developers with Python knowledge who wish to learn Django in a pragmatic way. Perhaps you are completely new to Django, or you already know a little but you want to get the most out of it. This book will help you to master the most relevant areas of the framework by building practical projects from scratch. You need to have familiarity with programming concepts in order to read this book. Some

previous knowledge of HTML and JavaScript is assumed.

Django: Web Development with Python - Samuel Dauzon

2016-08-31

From an idea to a prototype - a complete guide for web development with the Django framework

About This Book

Explore the best practices to develop applications of a superior quality with Django framework

Unravel the common problems of web development in Django

This course teaches you major Django functions and will help you improve your skills by developing models, forms, views, and templates

Experience the challenges of working on an end-to-end social network project

Who This Book Is For

Web developers who want to use modern Python-based web frameworks like Django to build powerful web applications.

The course is mostly self-contained and introduces web development with Python to a reader who is familiar with web development concepts and can help him

become an expert in this trade. It's intended for all levels of web developers, both students and practitioners from novice to experts.

What You Will Learn

Use Django models to store information in the database and generate queries to access a database across models

Quickly develop web pages to create, read, update, and delete data from the model using class-based views

Generate very maintainable forms with Django

Import data from local sources and external web services as well as exporting your data to third parties

Deep dive into various aspects of Django from models and views to testing and deployment

Familiarize yourself with the various nuances of web development such as browser attacks and databases

In Detail

Data science is hot right now, and the need for multitalented developers is greater than ever before.

A basic grounding in building apps with a framework as minimalistic, powerful, and easy-to-learn as Django will be a useful skill to launch your

career as an entrepreneur or web developer. Django is a web framework that was designed to strike a balance between rapid web development and high performance. This course will take you on a journey to become an efficient web developer thoroughly understanding the key concepts of Django framework. This learning path is divided into three modules. The course begins with basic concepts of the Django framework. The first module, Django Essentials, is like a practical guide, filled with many real-world examples to build highly effective Django web application. After getting familiar with core concepts of Django, it's time to practice your learning from the first module with the help of over 90 recipes available in this module. In the second module, Web Development with Django Cookbook, you'll learn varying complexities to help you create multilingual, responsive, and scalable websites with Django. By the end of this module, you will have a good understanding of the new features added to

Django 1.8 and be an expert at web development processes. The next step is to discover the latest best practices and idioms in this rapidly evolving Django framework. This is what you'll be learning in our third module, Django Design Patterns and Best Practices. This module will teach you common design patterns to develop better Django code. By the end of the module, you will be able to leverage the Django framework to develop a fully functional web application with minimal effort. Style and approach This course includes all the resources that will help you jump into the web development field with Django and learn how to make scalable and robust web applications. The aim is to create a smooth learning path that will teach you how to get started with the powerful Django framework and perform various web development techniques in depth. Through this comprehensive course, you'll learn web development with Django from scratch to finish!

## **Apple Human Interface**

**Guidelines** - Apple Computer, Inc 1987

*Beginning Django CMS* - Nigel George 2015-12-29

Build a world-class website in less than a week with Django CMS. *Beginning Django CMS* shows you how to simply and easily write a dynamic website with a full content management system in the backend. It is written for Internet developers who are sick and tired of dealing with complicated, bloated website frameworks that are a pain to build and a nightmare to maintain. Django CMS is an Open Source website building framework that is experiencing exponential growth because it is built on the simple, secure and scalable architecture of Django. This book takes you from knowing nothing about Django CMS, to building a functional website and content management system that you can deploy for your own website or for your customers. What You'll Learn: Install and configure Django CMS Build a

dynamic website quickly and easily Author and submit content for publication Administer Django CMS Install and use custom and third-party plugins Deploy a website using Django CMS Who This Book is For: *Beginning Django CMS* is for programmers, in particular Python and Django programmers, wishing to build a simple, custom content management system (CMS). They do not have to be directly interested in the Django CMS application, *Beginning Django CMS* will be equally useful to a programmer looking to build a functioning CMS rapidly.

## **Learn Web Development with Python** - Fabrizio

Romano 2018-12-21

A comprehensive guide to Python programming for web development using the most popular Python web framework - Django Key Features Learn the fundamentals of programming with Python and building web apps Build web applications from scratch with Django Create real-world RESTful web services with the latest Django framework Book

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Description If you want to develop complete Python web apps with Django, this Learning Path is for you. It will walk you through Python programming techniques and guide you in implementing them when creating 4 professional Django projects, teaching you how to solve common problems and develop RESTful web services with Django and Python. You will learn how to build a blog application, a social image bookmarking website, an online shop, and an e-learning platform. Learn Web Development with Python will get you started with Python programming techniques, show you how to enhance your applications with AJAX, create RESTful APIs, and set up a production environment for your Django projects. Last but not least, you'll learn the best practices for creating real-world applications. By the end of this Learning Path, you will have a full understanding of how Django works and how to use it to build web applications from scratch. This Learning

Path includes content from the following Packt products:  
Learn Python Programming by Fabrizio Romano  
Django RESTful Web Services by Gastón C. Hillar  
Django Design Patterns and Best Practices by Arun Ravindran  
What you will learn  
Explore the fundamentals of Python programming with interactive projects  
Grasp essential coding concepts along with the basics of data structures and control flow  
Develop RESTful APIs from scratch with Django and the Django REST Framework  
Create automated tests for RESTful web services  
Debug, test, and profile RESTful web services with Django and the Django REST Framework  
Use Django with other technologies such as Redis and Celery  
Who this book is for  
If you have little experience in coding or Python and want to learn how to build full-fledged web apps, this Learning Path is for you. No prior experience with RESTful web services, Python, or Django is required, but basic Python programming

experience is needed to understand the concepts covered.

*Django for APIs* - William S. Vincent 2022-02-23

Completely updated for Django 4.0 & Django REST Framework 3.13! Django for APIs is a project-based guide to building modern web APIs with Django & Django REST Framework. It is suitable for beginners who have never built an API before as well as professional programmers looking for a fast-paced introduction to Django fundamentals and best practices. Over the course of 200+ pages you'll learn how to set up a new project properly, how web APIs work under the hood, and advanced testing and deployment techniques. Three separate projects are built from scratch with progressively more advanced features including a Library API, Todo API, and Blog API. User authentication, permissions, documentation, viewsets, and routers are all covered thoroughly. Django for APIs is a best-practices guide to building powerful Python-

based web APIs with a minimal amount of code.

**Let Us Python** - Kanetkar Aditya Yashavant, Kanetkar 2020-02-11

Learn Python Quickly, A Programmer-Friendly GuideDESCRIPTIONMost Programmer's learning Python are usually comfortable with some or the other programming language and are not interested in going through the typical learning curve of learning the first programming language. Instead, they are looking for something that can get them off the ground quickly. They are looking for similarities and differences in a feature that they have used in other language(s). This book should help them immediately. It guides you from the fundamentals of using module through the use of advanced object orientation. KEY FEATURESStrengthens the foundations, as detailed explanation of programming language concepts are given in simple manner. Lists down all the important points that you need to know related to various

topics in an organized manner. Prepares you for coding related interview and theoretical questions. Provides In depth explanation of complex topics and Questions. Focuses on how to think logically to solve a problem. Follows a systematic approach that will help you to prepare for an interview in short duration of time. Exercises are exceptionally useful to complete the reader's understanding of a topic.

**WHAT WILL YOU LEARN** Data types, Control flow instructions, console & File Input/Output Strings, list & tuples, List comprehension Sets & Dictionaries, Functions & Lambdas Dictionary Comprehension Modules, classes and objects, Inheritance Operator overloading, Exception handling Iterators & Generators, Decorators, Command-line Parsing

**WHO THIS BOOK IS FOR** Students, Programmers, researchers, and software developers who wish to learn the basics of Python

programming language. Table of Contents

1. Introduction to Python
2. Python Basics
3. Strings
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20. Iterators and Generators
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22. File Input/Output
23. Miscellany
24. Multi-threading
25. Synchronization

**AUTHOR**  
BIO Yashavant Kanetkar  
Through his books and Quest Video Courses on C, C++, Java, Python, Data Structures, .NET, IoT, etc. Yashavant Kanetkar has created, moulded and groomed lacs of IT careers in the last three decades. Yashavant's books and Quest videos have made a significant contribution in creating top-notch IT

manpower in India and abroad. Yashavant's books are globally recognized and millions of students / professionals have benefitted from them. Yashavant's books have been translated into Hindi, Gujarati, Japanese, Korean and Chinese languages. Many of his books are published in India, USA, Japan, Singapore, Korea and China. Yashavant is a much sought after speaker in the IT field and has conducted seminars/workshops at TedEx, IITs, IIITs, NITs and global software companies. Yashavant has been honored with the prestigious "e;Distinguished Alumnus Award"e; by IIT Kanpur for his entrepreneurial, professional and academic excellence. This award was given to top 50 alumni of IIT Kanpur who have made significant contribution towards their profession and betterment of society in the last 50 years. In recognition of his immense contribution to IT education in India, he has been awarded the "e;Best .NET Technical Contributor"e; and

"e;Most Valuable Professional"e; awards by Microsoft for 5 successive years. Yashavant holds a BE from VJTI Mumbai and M.Tech. from IIT Kanpur. Yashavant's current affiliations include being a Director of KICIT Pvt Ltd. And KSET Pvt Ltd. His LinkedIn profile: [linkedin.com/in/yashavant-kanetkar-9775255](https://www.linkedin.com/in/yashavant-kanetkar-9775255) Aditya Kanetkar Aditya Kanetkar is currently working as a backend Software Engineer at Microsoft, Redmond, USA. He has been designing distributed systems software for the last 4 years. He has worked at multiple companies in the past, including Oracle, Redfin, Amazon and Arista Networks. Aditya holds a Master's Degree in Computer Science from Georgia Tech, Atlanta and a Bachelor's Degree in Computer Science and Engineering from IIT Guwahati. His current passion is anything remotely connected to Python, Machine Learning, Distributed Systems, Cloud Computing and and C# related technologies. His LinkedIn

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