

Mastering Flask Web Development

Second Edition

Build enterprise-grade, scalable Python web applications



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Daniel Gaspar and Jack Stouffer

Mastering Flask

Sherwin John C. Tragura



Mastering Flask:

Mastering Flask Web Development Daniel Gaspar, Jack Stouffer, 2018-10-31 Learn to build modern secure highly available web MVC applications and API s using Python s Flask framework Key Features Create production ready MVC and REST API with the dynamic features of Flask Utilize the various extensions like Flask JWT and Flask SQLAlchemy to develop powerful applications Deploy your flask application on real world platforms like AWS and Heroku on VM s or Docker containers Book Description Flask is a popular Python framework known for its lightweight and modular design Mastering Flask Web Development will take you on a complete tour of the Flask environment and teach you how to build a production ready application You ll begin by learning about the installation of Flask and basic concepts such as MVC and accessing a database using an ORM You will learn how to structure your application so that it can scale to any size with the help of Flask Blueprints You ll then learn how to use Jinja2 templates with a high level of expertise You will also learn how to develop with SQL or NoSQL databases and how to develop REST APIs and JWT authentication Next you ll move on to build role based access security and authentication using LDAP OAuth OpenID and database Also learn how to create asynchronous tasks that can scale to any load using Celery and RabbitMQ or Redis You will also be introduced to a wide range of Flask extensions to leverage technologies such as cache localization and debugging You will learn how to build your own Flask extensions how to write tests and how to get test coverage reports Finally you will learn how to deploy your application on Heroku and AWS using various technologies such as Docker CloudFormation and Elastic Beanstalk and will also learn how to develop Jenkins pipelines to build test and deploy applications What you will learn Develop a Flask extension using best practices Implement various authentication methods LDAP JWT Database OAuth and OpenID Learn how to develop role based access security and become an expert on Jinja2 templates Build tests for your applications and APIs Install and configure a distributed task queue using Celery and RabbitMQ Develop RESTful APIs and secure REST API s Deploy highly available applications that scale on Heroku and AWS using Docker or VMs Who this book is for The ideal target audience for this book would be Python developers who want to use Flask and its advanced features to create Enterprise grade and lightweight applications The book is for those who have some exposure of Flask and want to take it from introductory to master level *Mastering Flask* Jack Stouffer, 2015-09-30 Gain expertise in Flask to create dynamic and powerful web applications About This Book Work with scalable Flask application structures to create complex web apps Discover the most powerful Flask extensions and learn how to create one Deploy your application to real world platforms using this step by step guide Who This Book Is For If you are a Flask user who knows the basics of the library and how to create basic web pages with HTML and CSS and you want to take your applications to the next level this is the book for you Harnessing the full power of Flask will allow you to create complex web applications with ease What You Will Learn Set up a best practices Python environment Use SQLAlchemy to programmatically query a database Develop templates in Jinja Set up an MVC environment for Flask Discover NoSQL when

to use it when not to and how to use it Develop a custom Flask extension Use Celery to create asynchronous tasks In Detail Flask is a library that allows programmers to create web applications in Python Flask is a micro framework that boasts a low learning curve a large community and the power to create complex web apps However Flask is easy to learn but difficult to master Starting from a simple Flask app this book will walk through advanced topics while providing practical examples of the lessons learned After building a simple Flask app a proper app structure is demonstrated by transforming the app to use a Model View Controller MVC architecture With a scalable structure in hand the next chapters use Flask extensions to provide extra functionality to the app including user login and registration NoSQL querying a REST API an admin interface and more Next you ll discover how to use unit testing to take the guesswork away from making sure the code is performing as it should The book closes with a discussion of the different platforms that are available to deploy a Flask app on the pros and cons of each one and how to deploy on each one Style and approach With plenty of useful examples this guide introduces new concepts and then shows you how those concepts can be used in a real world environment Most sections are based around a single example app that is developed throughout the book

Mastering Flask Web Development - Second Edition Daniel Gaspar,Jack Stouffer,2018-10-31 Learn to build modern secure highly available web MVC applications and API s using Python s Flask framework Key Features Create production ready MVC and REST API with the dynamic features of Flask Utilize the various extensions like Flask JWT and Flask SQLAlchemy to develop powerful applications Deploy your flask application on real world platforms like AWS and Heroku on VM s or Docker containers Book Description Flask is a popular Python framework known for its lightweight and modular design Mastering Flask Web Development will take you on a complete tour of the Flask environment and teach you how to build a production ready application You ll begin by learning about the installation of Flask and basic concepts such as MVC and accessing a database using an ORM You will learn how to structure your application so that it can scale to any size with the help of Flask Blueprints You ll then learn how to use Jinja2 templates with a high level of expertise You will also learn how to develop with SQL or NoSQL databases and how to develop REST APIs and JWT authentication Next you ll move on to build role based access security and authentication using LDAP OAuth OpenID and database Also learn how to create asynchronous tasks that can scale to any load using Celery and RabbitMQ or Redis You will also be introduced to a wide range of Flask extensions to leverage technologies such as cache localization and debugging You will learn how to build your own Flask extensions how to write tests and how to get test coverage reports Finally you will learn how to deploy your application on Heroku and AWS using various technologies such as Docker CloudFormation and Elastic Beanstalk and will also learn how to develop Jenkins pipelines to build test and deploy applications What you will learn Develop a Flask extension using best practices Implement various authentication methods LDAP JWT Database OAuth and OpenID Learn how to develop role based access security and become an expert on Jinja2 templates Build tests for your applications and APIs Install and configure a distributed task queue using Celery and

RabbitMQ Develop RESTful APIs and secure REST API s Deploy highly available applications that scale on Heroku and AWS using Docker or VMs Who this book is for The ideal target audience for this book would be Python developers who want to use Flask and its advanced features to create Enterprise grade and lightweight applications The book is for those who have some exposure of Flask and want to take it from introductory to master level

Mastering Flask Web and API

Development Sherwin John C. Tragura,2024-08-16 Discover how to construct API and web components build enterprise grade applications design and implement unit and behavioral testing and plan deployment strategies for scalable Flask 3 applications Key Features Implement web and API applications using both standard and asynchronous Flask components Improve your dev experience with signals route decorators async await design patterns context managers and nested blueprints Tie all the features together in each chapter through practical relatable applications Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionFlask is a popular Python framework known for its lightweight and modular design Mastering Flask Web and API Development will take you on an exhaustive tour of the Flask environment and teach you how to build a production ready application You ll start by installing Flask and grasping fundamental concepts such as MVC and ORM database access Next you ll master structuring applications for scalability through Flask blueprints As you progress you ll explore both SQL and NoSQL databases while creating REST APIs and implementing JWT authentication and improve your skills in role based access security utilizing LDAP OAuth OpenID and databases The new project structure managed by context managers as well as ASGI support has revolutionized Flask and you ll get to grips with these crucial upgrades You ll also explore out of the box integrations with technologies such as RabbitMQ Celery NoSQL databases PostgreSQL and various external modules The concluding chapters discuss enterprise related challenges where Flask proves its mettle as a core solution By the end of this book you ll be well versed with Flask seeing it not only as a lightweight web and API framework but also as a potent problem solving tool in your daily work addressing integration and enterprise issues alongside Django and FastAPI What you will learn Prepare set up and configure development environments for both API and web applications Explore built in serializers and encoders that processes request and response data Solve big data issues by integrating Flask applications with NoSQL databases Apply various ORM and ODM techniques to build model and repository layers Integrate with OpenAPI Circuit Breaker ZooKeeper and OpenTracing to build scalable API applications Use Flask middleware to provide CRUD transactions for Flutter based mobile applications Who this book is for This book is for proficient Python developers seeking a deeper understanding of the Flask framework as a solution for tackling enterprise challenges It is also a great resource for Flask savvy readers eager to learn more about the framework s advanced capabilities and new features

***Mastering Flask in 5 Days; From Zero to Deployment* MARK JOHN**

LADO,2025-01-20 This is your fast track to web development with Python This hands on guide takes you on a whirlwind journey covering everything from fundamental concepts like routing and templates to advanced topics like database

integration user authentication and deployment Within five days you ll Grasp core Flask concepts Understand routes views templates and how to handle requests Build a real world application Develop a functional web application from scratch applying your newfound knowledge Master essential skills Learn to work with databases implement user authentication and build RESTful APIs Deploy your application Learn how to deploy your Flask application to production servers like Heroku or AWS This book is perfect for Beginners with some Python experience who want to dive into web development Developers looking to expand their skills with the powerful Flask framework Anyone seeking a fast paced and engaging introduction to building web applications Whether you re a student a hobbyist or a professional developer Mastering Flask in 5 Days provides the practical knowledge and guidance you need to succeed in the exciting world of Flask web development

Mastering PyTorch Ashish Ranjan Jha,2021-02-12 Master advanced techniques and algorithms for deep learning with PyTorch using real world examples Key Features Understand how to use PyTorch 1 x to build advanced neural network models Learn to perform a wide range of tasks by implementing deep learning algorithms and techniques Gain expertise in domains such as computer vision NLP Deep RL Explainable AI and much more Book DescriptionDeep learning is driving the AI revolution and PyTorch is making it easier than ever before for anyone to build deep learning applications This PyTorch book will help you uncover expert techniques to get the most out of your data and build complex neural network models The book starts with a quick overview of PyTorch and explores using convolutional neural network CNN architectures for image classification You ll then work with recurrent neural network RNN architectures and transformers for sentiment analysis As you advance you ll apply deep learning across different domains such as music text and image generation using generative models and explore the world of generative adversarial networks GANs You ll not only build and train your own deep reinforcement learning models in PyTorch but also deploy PyTorch models to production using expert tips and techniques Finally you ll get to grips with training large models efficiently in a distributed manner searching neural architectures effectively with AutoML and rapidly prototyping models using PyTorch and fast ai By the end of this PyTorch book you ll be able to perform complex deep learning tasks using PyTorch to build smart artificial intelligence models What you will learn Implement text and music generating models using PyTorch Build a deep Q network DQN model in PyTorch Export universal PyTorch models using Open Neural Network Exchange ONNX Become well versed with rapid prototyping using PyTorch with fast ai Perform neural architecture search effectively using AutoML Easily interpret machine learning ML models written in PyTorch using Captum Design ResNets LSTMs Transformers and more using PyTorch Find out how to use PyTorch for distributed training using the torch distributed API Who this book is for This book is for data scientists machine learning researchers and deep learning practitioners looking to implement advanced deep learning paradigms using PyTorch 1 x Working knowledge of deep learning with Python programming is required *Mastering Embedded Linux Programming* Frank Vasquez,Chris Simmonds,2021-05-14 Build customize and deploy Linux based embedded systems with confidence

using Yocto bootloaders and build tools Key Features Master build systems toolchains and kernel integration for embedded Linux Set up custom Linux distros with Yocto and manage board specific configurations Learn real world debugging memory handling and system performance tuning Book DescriptionIf you re looking for a book that will demystify embedded Linux then you ve come to the right place Mastering Embedded Linux Programming is a fully comprehensive guide that can serve both as means to learn new things or as a handy reference The first few chapters of this book will break down the fundamental elements that underpin all embedded Linux projects the toolchain the bootloader the kernel and the root filesystem After that you will learn how to create each of these elements from scratch and automate the process using Buildroot and the Yocto Project As you progress the book will show you how to implement an effective storage strategy for flash memory chips and install updates to a device remotely once it s deployed You ll also learn about the key aspects of writing code for embedded Linux such as how to access hardware from apps the implications of writing multi threaded code and techniques to manage memory in an efficient way The final chapters demonstrate how to debug your code whether it resides in apps or in the Linux kernel itself You ll also cover the different tracers and profilers that are available for Linux so that you can quickly pinpoint any performance bottlenecks in your system By the end of this Linux book you ll be able to create efficient and secure embedded devices using Linux What you will learn Use Buildroot and the Yocto Project to create embedded Linux systems Troubleshoot BitBake build failures and streamline your Yocto development workflow Update IoT devices securely in the field using Mender or balena Prototype peripheral additions by reading schematics modifying device trees soldering breakout boards and probing pins with a logic analyzer Interact with hardware without having to write kernel device drivers Divide your system up into services supervised by BusyBox runit Debug devices remotely using GDB and measure the performance of systems using tools such as perf ftrace eBPF and Callgrind Who this book is for If you re a systems software engineer or system administrator who wants to learn how to implement Linux on embedded devices then this book is for you It s also aimed at embedded systems engineers accustomed to programming for low power microcontrollers who can use this book to help make the leap to high speed systems on chips that can run Linux Anyone who develops hardware that needs to run Linux will find something useful in this book but before you get started you ll need a solid grasp on POSIX standard C programming and shell scripting **Learn Robotics Programming** Danny

Staple,2021-02-12 Design build and program AI driven robots from scratch using Python and Raspberry Pi while mastering real world robotics concepts sensor integration and camera based vision systems Key Features Learn hands on robotics by wiring coding and troubleshooting real hardware Integrate sensors cameras and voice agents to make your robot intelligent Follow a structured path from Python basics to browser based robot control Book DescriptionWe live in an age where the most complex or repetitive tasks are automated Smart robots have the potential to revolutionize how we perform all kinds of tasks with high accuracy and efficiency With this second edition of Learn Robotics Programming you ll see how a

combination of the Raspberry Pi and Python can be a great starting point for robot programming. The book starts by introducing you to the basic structure of a robot and shows you how to design, build, and program it. As you make your way through the book, you'll add different outputs and sensors, learn robot building skills, and write code to add autonomous behavior using sensors and a camera. You'll also be able to upgrade your robot with Wi-Fi connectivity to control it using a smartphone. Finally, you'll understand how you can apply the skills that you've learned to visualize, lay out, build, and code your future robot building projects. By the end of this book, you'll have built an interesting robot that can perform basic artificial intelligence operations and be well-versed in programming robots and creating complex robotics projects using what you've learned.

What you will learn:

- Leverage the features of the Raspberry Pi OS.
- Discover how to configure a Raspberry Pi to build an AI-enabled robot.
- Interface motors and sensors with a Raspberry Pi.
- Code your robot to develop engaging and intelligent robot behavior.
- Explore AI behavior such as speech recognition and visual processing.
- Find out how you can control AI robots with a mobile phone over Wi-Fi.
- Understand how to choose the right parts and assemble your robot.

Who this book is for: This book is intended for robotics enthusiasts, hobbyists, and aspiring programmers with a basic understanding of Python who are interested in building intelligent AI-enabled robots using Raspberry Pi. It is ideal for learners who prefer a practical, hands-on approach.

Mastering Python Networking Eric Chou, 2023-01-20

Get to grips with the latest container examples, Python 3 features, GitLab DevOps, network data analysis, and cloud networking to get the most out of Python for network engineering with the latest edition of this bestselling guide. Purchase of the print or Kindle book includes a free eBook in PDF format.

Key Features:

- Leverage Python's powerful libraries and frameworks to build production-ready network automation solutions efficiently and effectively.
- Implement network security monitoring and management solutions using modern DevOps tools and cloud-native approaches.
- Utilize AsyncIO and cloud capabilities in Python 3 for AWS and Azure network solutions.

Book Description: Networks in your infrastructure set the foundation for deploying, maintaining, and servicing applications. Python is the ideal language for network engineers to explore tools that were previously available to systems engineers and application developers. *Mastering Python Networking*, Fourth edition, guides you on a Python-driven journey from traditional network engineering to modern network development. This new edition incorporates the latest Python features and DevOps frameworks. In addition to new chapters on introducing Docker containers and Python 3 Async IO for network engineers, each chapter is updated with the latest libraries and working examples to ensure compatibility and clarity of the concepts. Starting with a basic overview of Python, the book teaches you how it can interact with both legacy and API-enabled network devices. You will learn to leverage high-level Python packages and frameworks to perform network automation tasks, monitoring, management, and enhanced network security, followed by AWS and Azure cloud networking. You will use Git for code management, GitLab for continuous integration, and Python-based testing tools to verify your network. By the end of this book, you'll be a confident network developer capable of automating modern infrastructure using Python DevOps practices and

cloud technologies What you will learn Use Python to interact with network devices Explore Docker for efficient network application development and deployment Extract network insights using Python and monitoring tools like NetFlow and SNMP Analyze network data with ELK for real time visualization Build high level API with Flask for in house applications Discover the new AsyncIO feature and its concepts in Python 3 Explore test driven development concepts and use pytest to drive code test coverage Understand how to implement DevOps best practices with GitLab in networking Who this book is for Mastering Python Networking Fourth edition is for network engineers developers and SREs who want to learn Python for network automation programmability monitoring cloud and data analysis Network engineers who want to transition from manual to automation based networks using the latest DevOps tools will also get a lot of useful information from this book Basic familiarity with Python programming and networking related concepts such as Transmission Control Protocol Internet Protocol TCP IP will be helpful in getting the most out of this book

Mastering Embedded Linux Development Frank Vasquez,Chris Simmonds,2025-05-27 Written by Frank Vasquez an embedded Linux expert this new edition enables you to harness the full potential of Linux to create versatile and robust embedded solutions All formats include a free PDF and an invitation to the Embedded System Professionals community Key Features Learn how to develop and configure reliable embedded Linux devices Discover the latest enhancements in Linux 6.6 and the Yocto Project 5.0 codename Scarthgap Explore different ways to debug and profile your code in both user space and the Linux kernel Purchase of the print or Kindle book includes a free PDF eBook Book Description Mastering Embedded Linux Development is designed to be both a learning resource and a reference for your embedded Linux projects In this fourth edition you ll learn the fundamental elements that underpin all embedded Linux projects the toolchain the bootloader the kernel and the root filesystem First you will download and install a pre built toolchain After that you will cross compile each of the remaining three elements from scratch and learn to automate the process using Buildroot and the Yocto Project The book progresses with coverage of over the air software updates and rapid prototyping with add on boards Two new chapters tackle modern development practices including Python packaging and deploying containerized applications These are followed by a chapter on writing multithreaded code and another on techniques to manage memory efficiently The final chapters demonstrate how to debug your code whether it resides in user space or in the Linux kernel itself In addition to GNU debugger GDB the book also covers the different tracers and profilers that are available for Linux so that you can quickly pinpoint any performance bottlenecks in your system By the end of this book you will be able to create efficient and secure embedded devices with Linux that will delight your users What you will learn Cross compile embedded Linux images with Buildroot and Yocto Enable Wi Fi and Bluetooth connectivity with a Yocto board support package Update IoT devices securely in the field with Mender or balena Prototype peripheral additions by connecting add on boards reading schematics and coding test programs Deploy containerized software applications on edge devices with Docker Debug devices remotely using GDB and measure the performance of systems using tools like perf

and ply Who this book is for If you are a systems software engineer or system administrator who wants to learn how to apply Linux to embedded devices then this book is for you The book is also for embedded software engineers accustomed to programming low power microcontrollers and will help them make the leap to a high speed system on chips that can run Linux Anyone who develops hardware for Linux will find something useful in this book But before you get started you will need a solid grasp of the POSIX standard C programming and shell scripting

Modern C++ Programming Learning Path MARK JOHN LADO,2025-03-25 Master Modern C with Confidence and Expertise Are you ready to unlock the full potential of C and elevate your programming skills to new heights Modern C Learning Path by Mark John Lado is your ultimate guide to mastering C with modern best practices This comprehensive resource is designed for both beginners seeking a solid foundation and experienced developers looking to refine their craft Inside this book you will discover Step by Step Tutorials Clear explanations practical code examples and real world applications ensure you grasp C fundamentals with ease Modern C Features Harness the power of C 11 to C 23 including smart pointers lambda functions coroutines and more Object Oriented Programming OOP Master classes inheritance polymorphism and encapsulation for efficient and scalable code Advanced Concepts Dive into templates metaprogramming concurrency and parallel processing to develop powerful software solutions Comprehensive Project Guidance Learn to build test and deploy robust C applications using industry standard tools like CMake Docker and GitHub Actions Practical Insights for Embedded Systems Game Development and Web Applications Specialized chapters guide you in building efficient solutions for various domains Whether you re a student a self taught programmer or a professional developer this book equips you with the skills needed to excel in modern C development With practical examples and expert insights Modern C Learning Path empowers you to write efficient maintainable and scalable code Start your journey toward C mastery today grab your copy now and code with confidence

Python Object-Oriented Programming Steven F. Lott,Dusty Phillips,2021-07-02 A comprehensive guide to exploring modern Python through data structures design patterns and effective object oriented techniques Key Features Build an intuitive understanding of object oriented design from introductory to mature programs Learn the ins and outs of Python syntax libraries and best practices Examine a machine learning case study at the end of each chapter Book Description Object oriented programming OOP is a popular design paradigm in which data and behaviors are encapsulated in such a way that they can be manipulated together Python Object Oriented Programming Fourth Edition dives deep into the various aspects of OOP Python as an OOP language common and advanced design patterns and hands on data manipulation and testing of more complex OOP systems These concepts are consolidated by open ended exercises as well as a real world case study at the end of every chapter newly written for this edition All example code is now compatible with Python 3 9 syntax and has been updated with type hints for ease of learning Steven and Dusty provide a comprehensive illustrative tour of important OOP concepts such as inheritance composition and polymorphism and explain how they work together with Python

s classes and data structures to facilitate good design In addition the book also features an in depth look at Python s exception handling and how functional programming intersects with OOP Two very powerful automated testing systems unittest and pytest are introduced The final chapter provides a detailed discussion of Python s concurrent programming ecosystem By the end of the book you will have a thorough understanding of how to think about and apply object oriented principles using Python syntax and be able to confidently create robust and reliable programs What you will learn Implement objects in Python by creating classes and defining methods Extend class functionality using inheritance Use exceptions to handle unusual situations cleanly Understand when to use object oriented features and more importantly when not to use them Discover several widely used design patterns and how they are implemented in Python Uncover the simplicity of unit and integration testing and understand why they are so important Learn to statically type check your dynamic code Understand concurrency with asyncio and how it speeds up programs Who this book is for If you are new to object oriented programming techniques or if you have basic Python skills and wish to learn how and when to correctly apply OOP principles in Python this is the book for you Moreover if you are an object oriented programmer coming from other languages or seeking a leg up in the new world of Python you will find this book a useful introduction to Python Minimal previous experience with Python is necessary

Modern Python Cookbook Steven F. Lott, 2016-11-30 The latest in modern Python recipes for the busy modern programmer About This Book Develop succinct expressive programs in Python Learn the best practices and common idioms through carefully explained and structured recipes Discover new ways to apply Python for the new age of development Who This Book Is For The book is for web developers programmers enterprise programmers engineers big data scientist and so on If you are a beginner Python Cookbook will get you started If you are experienced it will expand your knowledge base A basic knowledge of programming would help What You Will Learn See the intricate details of the Python syntax and how to use it to your advantage Improve your code readability through functions in Python Manipulate data effectively using built in data structures Get acquainted with advanced programming techniques in Python Equip yourself with functional and statistical programming features Write proper tests to be sure a program works as advertised Integrate application software using Python In Detail Python is the preferred choice of developers engineers data scientists and hobbyists everywhere It is a great scripting language that can power your applications and provide great speed safety and scalability By exposing Python as a series of simple recipes you can gain insight into specific language features in a particular context Having a tangible context helps make the language or standard library feature easier to understand This book comes with over 100 recipes on the latest version of Python The recipes will benefit everyone ranging from beginner to an expert The book is broken down into 13 chapters that build from simple language concepts to more complex applications of the language The recipes will touch upon all the necessary Python concepts related to data structures OOP functional programming as well as statistical programming You will get acquainted with the nuances of Python syntax and how to

effectively use the advantages that it offers You will end the book equipped with the knowledge of testing web services and configuration and application integration tips and tricks The recipes take a problem solution approach to resolve issues commonly faced by Python programmers across the globe You will be armed with the knowledge of creating applications with flexible logging powerful configuration and command line options automated unit tests and good documentation Style and approach This book takes a recipe based approach where each recipe addresses specific problems and issues The recipes provide discussions and insights and an explanation of the problems [Django in Production](#) Arghya Saha,2024-04-05

Enhance your Django skills and elevate your employability by mastering the tools and practices employed by seasoned senior developers

Key Features Gain a comprehensive understanding of the available deployment strategies for Django applications Explore techniques and best practices to enhance the efficiency and performance of your Django application Troubleshoot common production issues through efficient error logging and handling techniques Purchase of the print or Kindle book includes a free PDF eBook

Book DescriptionYou may have got your first Django developer job after a six week bootcamp or online course and that's great but what's next In small companies mentorship can be hard to come by and gaining the traits of a senior developer without that can take a long time This is precisely where Django in Production comes into play This book will first delve into the true meaning of good practice and help you understand the rationale behind industry professionals building websites in specific ways to develop a solid foundation for your Django projects Next you will uncover hidden Django secrets through hands on exploration leveraging the power of Docker and version control to your advantage You will gain insights into mastering Git hooks for efficient code maintenance establishing a robust CI pipeline and harnessing the capabilities of AWS Beanstalk These tools will empower you to develop highly scalable products an essential skill set for aspiring developers transitioning from junior to senior roles Later you will understand the significance of monitoring and be introduced to industry standard tools utilized by professionals for effective monitoring practices By the end of this book you will have set yourself apart from the crowd equipped with the knowledge and expertise to thrive as a seasoned Django developer

What you will learn Write scalable and maintainable code like a Django expert Become proficient in Docker for Django and experience platform agnostic development Explore intelligent practices for continuous integration Leverage the power of AWS to seamlessly deploy your application in a production environment Optimize unstable systems through effective performance monitoring Effortlessly handle authentication and authorization issues Automate repetitive tasks by creating custom middleware Thoroughly test your code using `factory_boy` and craft comprehensive API tests Who this book is for This book is for Python and Django developers who aspire to elevate their Django skills to an advanced level It assumes an intermediate level of proficiency in Python and Django programming and aims to impart comprehensive knowledge on optimizing the production environment and utilizing associated toolsets By implementing these best practices you will enhance the efficiency robustness and scalability of your production systems thereby accelerating your career

growth and professional development

Hands-On Design Patterns with Python Aditya Pratap Bhuyan,2025-03-07

Hands On Design Patterns with Python is an essential guide for software developers and engineers seeking to master design patterns and enhance their Python programming skills Whether you re a beginner or an experienced Python developer this book provides you with the tools and practical knowledge to implement and apply design patterns effectively in your projects Design patterns are proven solutions to common software design challenges This book dives into the 23 classic design patterns categorizing them into Creational Structural and Behavioral patterns offering real world Python code examples and hands on guidance Each pattern is explained with clarity demonstrating its real world application and helping you write more modular scalable and maintainable code Key Features Comprehensive Coverage of Design Patterns From fundamental patterns like Singleton and Factory to advanced ones like Command and State this book covers a wide range of design patterns with easy to follow Python implementations Practical Code Examples Every pattern is accompanied by detailed Python code showing you how to implement and adapt the pattern to solve common software design problems Real World Use Cases Learn how to apply design patterns to solve real world challenges Through hands on projects and case studies you ll discover how these patterns fit into various Python applications from simple scripts to complex systems Modern Python Insights The book not only explains design patterns but also integrates Python specific features such as decorators context managers and type hinting to make the code cleaner and more Pythonic Best Practices for Software Design Beyond just patterns this book emphasizes writing clean maintainable code refactoring legacy systems and building scalable architectures using design patterns Who This Book is For Software Developers looking to deepen their understanding of design patterns and enhance their Python skills Python Engineers who want to write more efficient reusable and maintainable code Software Architects seeking a structured approach to designing scalable systems with Python Agile Teams or Scrum Masters who want to integrate design patterns into their development process for better collaboration and system reliability What You ll Learn Creational Patterns like Singleton and Factory Method that simplify object creation Structural Patterns such as Adapter Composite and Decorator that optimize system organization Behavioral Patterns like Observer and Strategy that manage object interaction Advanced Patterns like Dependency Injection and Event Driven Architecture for modern scalable applications This book goes beyond theory and empowers you to apply what you ve learned in real projects whether you re building a simple application or developing enterprise level software You ll gain the skills to design better systems that are flexible maintainable and ready to evolve with your business needs Hands On Design Patterns with Python is a practical guide that equips you with everything you need to write cleaner more efficient and future proof software

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Hands-On Application Development with PyCharm Bruce M. Van Horn II, Quan Nguyen, 2023-10-20 Unleash the power of PyCharm to craft business scientific and web applications in Python with this definitive guide Key Features Learn basic to advanced PyCharm concepts to improve developer efficiency on your Python projects Learn with practical examples that focus on efficient application development Explore features such as code automation graphical debugging and remote development Purchase of the print or Kindle book includes a free PDF eBook Book Description In the quest to develop robust professional grade software with Python and meet tight deadlines it s crucial to have the best tools at your disposal In this second edition of Hands on Application Development with PyCharm you ll learn tips and tricks to work at a speed and proficiency previously reserved only for elite developers To achieve that you ll be introduced to PyCharm the premiere professional integrated development environment for Python programmers among the myriad of IDEs available Regardless of how Python is utilized whether for general automation scripting utility creation web applications data analytics machine learning or business applications PyCharm offers tooling that simplifies complex tasks and streamlines common ones In this book you ll find everything you need to harness PyCharm s full potential and make the most of PyCharm s productivity shortcuts The book comprehensively covers topics ranging from installation and customization to web development database management and data analysis pipeline development helping you become proficient in Python application development in diverse domains By the end of this book you ll have discovered the remarkable capabilities of PyCharm and how you can achieve a new level of capability and productivity What you will learn Explore basic and advanced PyCharm features Set up configure and customize your Python projects in PyCharm Develop web applications with Flask Django FastAPI and Pyramid Discover PyCharm s capabilities for database management and data visualization Explore code automation debugging and remote development in PyCharm Perform data science tasks using Jupyter notebooks NumPy and pandas Who this book is for This book is for Python practitioners and learners looking to boost their productivity and proficiency by harnessing the features and capabilities of PyCharm all while gaining insights into best practices for modern application development Basic knowledge of Python is required making the book accessible to both newcomers and experienced Python developers

Mastering Design Patterns for Layered Testing Manish Saini, 2025-04-19 TAGLINE Master Layered Test Automation and Build Integrate and Deploy with Confidence KEY

FEATURES Implement automated testing across UI API and backend for robust coverage Seamlessly integrate test automation with CI CD pipelines for efficiency Master advanced testing strategies for microservices and distributed systems

DESCRIPTION In today's fast paced software development landscape ensuring application quality requires a strategic approach to test automation Mastering Design Patterns for Layered Testing empowers you with the knowledge and tools to design implement and optimize automation across UI API and backend layers using Python's powerful ecosystem Starting with foundational concepts like test design patterns and the Test Pyramid the book delves into practical implementations of unit testing integration testing API testing and contract testing You'll learn how to integrate automated tests into CI CD pipelines using GitHub Actions generate detailed test reports with Allure and address modern testing challenges such as microservices and containerized environments Real world case studies illustrate how to apply these techniques in production settings A dedicated chapter on Generative AI in testing explores its applications in test case generation and test data creation Whether you're an intermediate tester looking to enhance your automation skills or an experienced professional seeking to learn advanced strategies this book provides the expertise needed to build scalable and reliable test automation frameworks that drive software quality and efficiency Stay ahead of the curve master next gen test automation before it's too late

WHAT WILL YOU LEARN Design and implement scalable test automation across all application layers Build robust test frameworks using Python's advanced testing ecosystem Seamlessly integrate automated tests into modern CI CD pipelines Apply advanced testing patterns for APIs microservices and UI components Utilize contract testing and performance testing for reliable applications Leverage Generative AI to enhance test coverage and efficiency

WHO IS THIS BOOK FOR This book is ideal for QA engineers and developers with intermediate programming skills who want to elevate their test automation expertise A foundational understanding of testing concepts web technologies APIs and Git version control will enable readers to fully grasp and implement the advanced automation strategies covered

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