

Introduction Computing Using Python Application

Unplugging Flask for Crafting Web Apps with Python □s Cleanest Framework Hands-On Application Development with PyCharm Programming Google App Engine Core Python Applications Programming Learning Python Application Development Getting Started with Streamlit for Data Science Teach Yourself VISUALLY Raspberry Pi PYTHON FOR DESKTOP APPLICATIONS Programming Applications for Netscape Servers Mobile Applications Development Python API Development Fundamentals Ultimate Django for Web App Development Using Python: Build Modern, Reliable, and Scalable Production-Grade Web Applications with Django and Python Test-Driven Python Development Programming Google App Engine with Python Development and Application of Computer Techniques to Environmental Studies VIII Python Annotated Archives New Developments and Applications in Composites Building Applications with the Linux Standard Base Introduction to Computation and Programming Using Python, second edition Advanced Python Programming Dr. Poornima G. Naik Quan Nguyen Dan Sanderson Wesley J Chun Ninad Sathaye Tyler Richards Richard Wentk TRAN DUC LOI Kaveh Gh Bassiri Tarkeshwar Barua Jack Chan Leonardo Luis Siddharta Govindaraj Dan Sanderson G. Ibarra-Berastegi Martin C. Brown Doris Kuhlmann-Wilsdorf George Kraft John V. Guttag Dr. Gabriele Lanaro

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Python Test-Driven Python Development Programming Google App Engine with Python Development and Application of Computer Techniques to Environmental Studies VIII Python Annotated Archives New Developments and Applications in Composites Building Applications with the Linux Standard Base Introduction to Computation and Programming Using Python, second edition Advanced Python Programming *Dr. Poornima G. Naik Quan Nguyen Dan Sanderson Wesley J Chun Ninad Sathaye Tyler Richards Richard Wentk TRAN DUC LOI Kaveh Gh Bassiri Tarkeshwar Barua Jack Chan Leonardo Luis Siddharta Govindaraj Dan Sanderson G. Ibarra-Berastegi Martin C. Brown Doris Kuhlmann-Wilsdorf George Kraft John V. Guttag Dr. Gabriele Lanaro*

flask is a lightweight yet powerful python web framework widely used for developing scalable and secure web applications its simplicity flexibility and modular design make it ideal for both beginners and professionals mastering flask enhances employability by equipping learners with in demand skills needed for backend development restful api creation and full stack integration in modern web projects proficiency in flask opens doors to roles in web development software engineering and tech startups chapter 1 introduces the foundational concepts of flask a lightweight and flexible python web framework chapter 2 delves into the core concept of routing in flask which is essential for managing how users navigate a web application chapter 3 focuses on the integration of jinja2 templating engine within flask applications to create dynamic and modular web pages chapter 4 provides a comprehensive understanding of how flask serves static content such as html css images videos and audio files chapter 5 delves into the foundational http methods supported by flask such as get post put and delete and explains how these methods enable communication between clients and servers

a definitive guide to pycharm to help you build business oriented python applications ranging from modern web development to data science key featureslearn basic to advanced pycharm concepts to improve efficiency of your python projectswork through practical examples that focus on efficient application development with pycharmexplore advanced features in pycharm such as code

automation version control and gui debuggingbook description jetbrain s pycharm is the most popular integrated development environment ide used by the python community thanks to its numerous features that facilitate faster more accurate and more productive programming practices however the abundance of options and customizations can make pycharm seem quite intimidating hands on application development with pycharm starts with pycharm s installation and configuration process and systematically takes you through a number of its powerful features that can greatly improve your productivity you ll explore code automation version control graphical debugging testing management of virtual environments and much more finally you ll delve into specific pycharm features that support web development and data science two of the fastest growing applications in python programming these include the integration of the django framework as well as the extensive support for ipython and jupyter notebook by the end of this pycharm book you will have gained extensive knowledge of the tool and be able to implement its features and make the most of its support for your projects what you will learnexplore pycharm functionalities and what makes it stand out from other python idesset up configure and customize your python projects in pycharmunderstand how pycharm integrates with django for web developmentdiscover pycharm s capabilities in database management and data visualizationperform code automation gui testing and version control in pycharmintegrate interactive python tools such as jupyter notebooks for building virtual environmentswho this book is for if you re a beginner or an expert python user looking to improve your productivity using one of the best python ides this book is for you basic knowledge of python programming language is expected

google app engine makes it easy to create a web application that can serve millions of people as easily as serving hundreds with minimal up front investment with programming google app engine google engineer dan sanderson provides practical guidance for designing and developing your application on google s vast infrastructure using app engine s scalable services and simple development model through clear and concise instructions you ll learn how to get the most out of app engine s nearly unlimited computing power this second edition is fully updated and expanded to cover python 2 7 and java 6 support multithreading

asynchronous service apis and the use of frameworks such as django 1.3 and webapp2 understand how app engine handles web requests and executes application code learn about new datastore features for queries and indexes transactions and data modeling create manipulate and serve large data files with the blobstore use task queues to parallelize and distribute computation across the infrastructure employ scalable services for email instant messaging and communicating with web services track resource consumption and optimize your application for speed and cost effectiveness

already know python but want to learn more a lot more dive into a variety of topics used in practice for real world applications covers regular expressions internet network programming guis sql databases orms threading and development learn about contemporary development trends such as google twitter mongodb oauth python 3 migration and java jython presents brand new material on django google app engine csv json xml and microsoft office includes python 2 and 3 code samples to get you started right away provides code snippets interactive examples and practical exercises to help build your python skills the complete developer's guide to python python is an agile robust and expressive programming language that continues to build momentum it combines the power of compiled languages with the simplicity and rapid development of scripting languages in core python applications programming third edition leading python developer and corporate trainer wesley chun helps you take your python knowledge to the next level this book has everything you need to become a versatile python developer you will be introduced to multiple areas of application development and gain knowledge that can be immediately applied to projects and you will find code samples in both python 2 and 3 including migration tips if that's on your roadmap too some snippets will even run unmodified on 2.x or 3.x learn professional python style best practices and good programming habits build clients and servers using tcp udp xml rpc and be exposed to higher level libraries like socketserver and twisted develop gui applications using tkinter and other available toolkits improve application performance by writing extensions in c/c++ or enhance i/o bound code with multithreading discover sql and relational databases orms and even non relational nosql databases like mongodb learn the basics of programming including

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take python beyond scripting to build robust reusable and efficient applications about this book get to grips with python techniques that address commonly encountered problems in general application development develop package and deploy efficient applications in a fun way all practical coverage of the major areas of application development including best practices exception handling testing refactoring design patterns performance and gui application development who this book is for do you know the basics of python and object oriented programming do you want to go an extra mile and learn techniques to make your python application robust extensible and efficient then this book is for you what you will learn build a robust application by handling exceptions modularize package and release the source distribution document the code and implement coding standards create automated tests to catch bugs in the early development stage identify and re factor badly written code to improve application life detect recurring problems in the code and apply design patterns improve code efficiency by identifying performance bottlenecks and fixing them develop simple gui applications using python in detail python is one of the most widely used dynamic programming languages supported by a rich set of libraries and frameworks that enable rapid development but fast paced development often comes with its own baggage

that could bring down the quality performance and extensibility of an application this book will show you ways to handle such problems and write better python applications from the basics of simple command line applications develop your skills all the way to designing efficient and advanced python apps guided by a light hearted fantasy learning theme overcome the real world problems of complex python development with practical solutions beginning with a focus on robustness packaging and releasing application code you ll move on to focus on improving application lifetime by making code extensible reusable and readable get to grips with python refactoring design patterns and best practices techniques to identify the bottlenecks and improve performance are covered in a series of chapters devoted to performance before closing with a look at developing python guis style and approach the book uses a fantasy game theme as a medium to explain various topics specific aspects of application development are explained in different chapters in each chapter the reader is presented with an interesting problem which is then tackled using hands on examples with easy to follow instructions

create deploy and test your python applications analyses and models with ease using streamlit key features learn how to showcase machine learning models in a streamlit application effectively and efficiently become an expert streamlit creator by getting hands on with complex application creation discover how streamlit enables you to create and deploy apps effortlessly book descriptionstreamlit shortens the development time for the creation of data focused web applications allowing data scientists to create web app prototypes using python in hours instead of days getting started with streamlit for data science takes a hands on approach to helping you learn the tips and tricks that will have you up and running with streamlit in no time you ll start with the fundamentals of streamlit by creating a basic app and gradually build on the foundation by producing high quality graphics with data visualization and testing machine learning models as you advance through the chapters you ll walk through practical examples of both personal data projects and work related data focused web applications and get to grips with more challenging topics such as using streamlit components beautifying your apps and quick deployment of your new apps by the end of this book you ll be able to

create dynamic web apps in streamlit quickly and effortlessly using the power of python what you will learn set up your first development environment and create a basic streamlit app from scratch explore methods for uploading downloading and manipulating data in streamlit apps create dynamic visualizations in streamlit using built in and imported python libraries discover strategies for creating and deploying machine learning models in streamlit use streamlit sharing for one click deployment beautify streamlit apps using themes streamlit components and streamlit sidebar implement best practices for prototyping your data science work with streamlit who this book is for this book is for data scientists and machine learning enthusiasts who want to create web apps using streamlit whether you re a junior data scientist looking to deploy your first machine learning project in python to improve your resume or a senior data scientist who wants to use streamlit to make convincing and dynamic data analyses this book will help you get there prior knowledge of python programming will assist with understanding the concepts covered

full color step by step guidance for learning to use raspberry pi raspberry pi is an inexpensive single board computer that serves as an introductory board for students and developing computer professionals this image driven visual guide shows you how the raspberry pi can be easily used as a stand alone computer a media center a web server and much more vivid full color images bring raspberry pi projects to life while well illustrated circuit diagrams and step by step practical advice cover everything from working with the included software to branching out into typical but more complex endeavors covers interesting topics for students and aspiring computer professionals demonstrates how to create custom projects work with the raspberry os install other operating systems get the most out of the raspberry pi and much more encourages users to study and tinker with the raspberry pi teach yourself visually raspberry pi is an ideal resource for anyone who learns better with visual instruction and puts them well on their way to making the most of this low cost computer

chapter 1 introduction shows you some fundamental concepts of python such as pip wheel virtual environment gil cli and gui which

tools we will use how to set them up chapter 2 create a file downloader with tkinter introduces how to develop a python file downloader application with simple gui using tkinter library this chapter also guides you how to pack your application using pyinstaller and make a setup using nsis chapter 3 create a music player with kivy walks through how make a music player with kivy we will start with a very simple kivy application then eventually build a more complex one we also pack our music player up using pyinstaller chapter 4 debugging shows you how to debug your applications if something wrong useful tips and handy dependencywalker debug tool guide in this chapter you will also be introduced to cx freeze to build freeze a wx python application

programming applications for netscape servers fully explains netscape servers and provides examples of how to program applications for them this book describes the inner workings of netscape servers 1 x through 3 5 1 the latest version including a review of server configuration options file settings and administration techniques you will also find a review of api fundamentals examples walk through tutorials for writing server applications and a close examination of the most appropriate programming tools for extending netscape servers and creating leading edge internet and intranet applications this book offers in depth coverage of nsapi the netscape server api the first comprehensive review of wai application interface the latest netscape programming option a complete review of netscape server configuration settings comparisons of nsapi corba wai cgi and other server programming options a cd rom with code samples utilities and documentation for cgi nsapi corba and wai plus nsapi extensions for perl and python and cgi libraries for c c and perl in addition this book surveys corba and first generation programming interfaces including cgi w

the book covers the concepts of python programming language along with mobile application development starting from fundamentals the book continues with the explanation of mobile app development using kivy framework all the chapters offer questions and exercises for to better understanding of the subject at the end of the book some hands on projects are given to help

the readers to improve their programming and project development skills

learn all that is needed to build a fully functional web application from scratch key features delve deep into the principle behind restful api learn how to build a scalable web application with the restful api architecture and flask framework know what are the exact tools and methodology to test your applications and how to use them book description python is a flexible language that can be used for much more than just script development by knowing the python restful apis work you can build a powerful backend for web applications and mobile applications using python you will take your first steps by building a simple api and learning how the frontend web interface can communicate with the backend you will also learn how to serialize and deserialize objects using the marshmallow library then you will learn how to authenticate and authorize users using flask jwt you will also learn how to enhance your apis by adding useful features such as email image upload searching and pagination you will wrap up the whole book by deploying your apis to the cloud by the end of this book you will have the confidence and skill to leverage the power of restful apis and python to build efficient web applications what you will learn understand the concept of a restful api build a restful api using flask and the flask restful extension manipulate a database using flask sqlalchemy and flask migrate send out plaintext and html format emails using the mailgun api implement a pagination function using flask sqlalchemy use caching to improve api performance and efficiently obtain the latest information deploy an application to heroku and test it using postman who this book is for this book is ideal for aspiring software developers who have a basic to intermediate knowledge of python programming and who want to develop web applications using python knowledge of how web applications work will be beneficial but is not essential

craft scalable and dynamic apps using django and python key features real world practices and solutions for crafting dynamic and scalable django solutions build a comprehensive task management system hands on explore advanced api testing and deployment techniques with real world applications book description this comprehensive guide is an indispensable resource for developers

seeking to elevate their web development skills in django and python the book begins by establishing a strong foundation and understanding of django s architecture emphasizing the model view template mvt pattern and a pivotal service layer for creating scalable web applications the book then progresses to practical aspects guiding readers through the development of a task management app this hands on approach reinforces fundamental concepts and showcases django s flexibility and efficiency in real world scenarios the advanced sections of the book will help you tackle complex challenges covering topics like preventing double form submissions implementing offline pessimistic and optimistic locking techniques mastering api development with django ninja and ensuring application reliability through exhaustive testing with pytest the book culminates in practical insights for deploying django applications with docker and kubernetes this guide equips you to tackle real world challenges effectively what you will learn unlock the potential of django 4 2 and python for robust web development expertise seamlessly build and deploy a complete django project implementing essential features like authentication authorization and multi tenant capabilities develop and secure apis with django ninja following best practices for a streamlined process gain mastery in testing with pytest ensuring the creation of reliable bug free django applications elevate your skills and create web solutions with confidence using the latest tools and techniques in django development

table of contents
1 introduction to django and python
2 setting up your development environment
3 getting started with django projects and apps
4 django models and postgresql
5 django views and url handling
6 using the django template engine
7 forms in django
8 user authentication and authorization in django
9 django ninja and apis
10 testing with pytest
11 deploying django applications with gunicorn and docker
12 final thoughts and future directions
index

this book is intended for python developers who want to use the principles of test driven development tdd to create efficient and robust applications in order to get the best out of this book you should have development experience with python

this volume presents developments and practical implementations in the theoretical numerical and applicable aspects of computer

analysis simulation modelling control and forecasting for environmental applications the contributions come from managers scientists and engineers attending the eighth international conference on this subject topics covered include health and pollution fluid dynamics environmental management and decision analysis chemistry physics and biology satellite data image processing and remote sensing renewable energies databases and software implementation

expert annotations show when and how to customize python code examples to fit individual development needs brown covers data manipulation networking and interface development graphics e mail and more the bonus cd rom contains all code from the book saving readers hundreds of programming hours

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praise for the linux standard base community built software and community built standards are two sides of the same coin standards help ensure that the freedom to invent the essence of open source and linux doesn t compromise the ability to write software that works together effectively the lsb is an important set of standards for the linux community brian behlendorf apache software foundation collabnet with the recent success of the lsb and the adoption on a wide scale of the lsb standards building applications that are standards compliant has become a much easier and more necessary part of the development on linux as a platform jeffrey hemos bates editor slashdot org in the days before the lsb every change and every improvement we wanted to make to our linux product was subject to somebody saying but wait i depend on that the lsb laid out what interfaces were defined and how they should be used since the lsb was adopted we have been free to innovate without fear of breaking somebody else s assumptions the success of the lsb recommended it as the starting point for the u s department of defense s common operating environment coe specification for linux without the lsb there would be no coe certified red hat products today michael tiemann chief

technology officer red hat inc as an active lsb member suse linux is committed both to providing customers with standardized linux technology and to simplifying isv s and ihv s linux certification efforts the availability of common standards plays a decisive role in the proliferation of linux operating systems and applications on server and client systems worldwide and we appreciate the lsb project s work in developing and promoting these standards markus rex general manager of suse linux for novell we are very happy to see the progress of lsb both in the definition of the standard and in its broad support lsb is an important part of our strategy and mandrakesoft will continue to support the efforts of lsb to define a standardized abi and encourage isvs to build and certify to this standard francois bancilhon chief executive officer mandrakesoft the launch of the lsb is a significant development for the linux community for the very first time in history a common binary computing environment will be able to be shared across different systems from different vendors the lsb will play a pivotal role in ensuring the proper development of the linux market sun wah linux is excited about this phenomenon and is dedicated to supporting lsb s future efforts and endeavors alex banh chief executive officer sun wah linux p r c an initiative of the free standards group the linux standard base lsb is a set of standards designed to increase compatibility among linux distributions and enable applications to run on any lsb compliant system the advent of lsb 2 0 is revolutionary in that it allows isvs to create shrink wrapped software for the linux platform much in the same way they already do for windows written by the team that created the lsb building applications with the linux standard base shows developers how to create test and certify software for lsb 2 0 compliance the book s hands on approach lets readers quickly understand how to write linux applications that are portable across multiple distributions including those from suse mandrake and solaris the accompanying cd rom contains the full lsb 2 0 specification and the sample program files used in the book coverage includes lsb coding practices software packing and installation issues unix to linux migration tips testing linux distribution and applications for lsb compatibility examples of applications using the lsb relevant standards for linux

the new edition of an introductory text that teaches students the art of computational problem solving covering topics ranging from

simple algorithms to information visualization this book introduces students with little or no prior programming experience to the art of computational problem solving using python and various python libraries including pylab it provides students with skills that will enable them to make productive use of computational techniques including some of the tools and techniques of data science for using computation to model and interpret data the book is based on an mit course which became the most popular course offered through mit s opencourseware and was developed for use not only in a conventional classroom but in in a massive open online course mooc this new edition has been updated for python 3 reorganized to make it easier to use for courses that cover only a subset of the material and offers additional material including five new chapters students are introduced to python and the basics of programming in the context of such computational concepts and techniques as exhaustive enumeration bisection search and efficient approximation algorithms although it covers such traditional topics as computational complexity and simple algorithms the book focuses on a wide range of topics not found in most introductory texts including information visualization simulations to model randomness computational techniques to understand data and statistical techniques that inform and misinform as well as two related but relatively advanced topics optimization problems and dynamic programming this edition offers expanded material on statistics and machine learning and new chapters on frequentist and bayesian statistics

create distributed applications with clever design patterns to solve complex problems key features set up and run distributed algorithms on a cluster using dask and pysparkmaster skills to accurately implement concurrency in your code gain practical experience of python design patterns with real world examples book description this learning path shows you how to leverage the power of both native and third party python libraries for building robust and responsive applications you will learn about profilers and reactive programming concurrency and parallelism as well as tools for making your apps quick and efficient you will discover how to write code for parallel architectures using tensorflow and theano and use a cluster of computers for large scale computations using technologies such as dask and pyspark with the knowledge of how python design patterns work you will be

able to clone objects secure interfaces dynamically choose algorithms and accomplish much more in high performance computing by the end of this learning path you will have the skills and confidence to build engaging models that quickly offer efficient solutions to your problems this learning path includes content from the following packt products python high performance second edition by gabriele lanaromastering concurrency in python by quan nguyenmastering python design patterns by sakis kasampaliswhat you will learnuse numpy and pandas to import and manipulate datasetsachieve native performance with cython and numbawrite asynchronous code using asyncio and rxpydesign highly scalable programs with application scaffoldingexplore abstract methods to maintain data consistencyclone objects using the prototype patternuse the adapter pattern to make incompatible interfaces compatibleemploy the strategy pattern to dynamically choose an algorithmwho this book is for this learning path is specially designed for python developers who want to build high performance applications and learn about single core and multi core programming distributed concurrency and python design patterns some experience with python programming language will help you get the most out of this learning path

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FAQs

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