

Introduction Computing Using Python Application

Hands-On Application Development with PyCharm
Unplugging Flask for Crafting Web Apps
with Python's Cleanest Framework
Programming Google App Engine with Python
Accelerate Python Applications: Profiling, Tuning and Scaling
Building Web Apps with Python and Flask
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PYTHON FOR DESKTOP APPLICATIONS
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Getting Started with Streamlit for Data Science
Python Annotated Archives
Mobile Applications Development
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Building Web Apps with Python and Flask
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C and Python Applications

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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 pycharminegrate 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

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

this practical guide shows intermediate and advanced web and mobile app developers how to build highly scalable python applications in the cloud with google app engine the flagship of google s cloud platform app engine hosts your app on infrastructure that grows automatically with your traffic minimizing up front costs and accommodating unexpected visitors you ll learn hands on how to perform common development tasks with app engine services and development tools including deployment and maintenance app engine s python support includes a fast python 2 7 interpreter the standard library and a wsgi based runtime environment choose from many popular web application frameworks including django and flask get a hands on introduction to app engine s tools and features using an example application simulate app engine on your development machine with tools from google cloud sdk structure your app into individually addressable modules each with its own scaling configuration exploit the power of the scalable cloud datastore using queries transactions and data modeling with the ndb library use cloud sql for standard relational databases with app engine applications learn how to deploy manage and inspect your application on google infrastructure

a practical guide for the rapid web application development with flask key features expert led coverage of core capabilities of flask key extensions and its implementation explore the werkzeug toolkit and jinja template engine and see how flask interacts with javascript and css detailed modules on building and deploying restful applications using flask this book teaches the reader the complete workflow of developing web applications using python and its most outperforming microframework flask the book begins with getting you up to speed in developing a strong understanding of the web application

development process and how python is used in developing the applications you will learn how to write your own first flask based web application in python you will learn about web gateway interfaces including cgi and wsgi along with various tools like the jinja 2 engine werkzeug toolkit and click toolkit you will learn and practice the core features of flask such as url routing rendering handling static assets of a web application how to handle cookies and sessions and other http objects once you have developed a strong knowledge of flask you will now dive deeper into advanced topics that includes flask extensions for working with relational and nosql databases flask wtf and flask bootstrap you will explore design patterns various blueprints on how to build modular and scalable applications and finally how to deploy the restful apis successfully on your own what you will learn get to know everything about the core capabilities of flask understand the basic building blocks of flask get familiar with advanced features of flask including blueprints flask extensions and database connectivity get ready to design your own flask based web applications and restful apis learn to build modular and scalable applications and how to deploy them successfully who this book is for this book is ideal for python enthusiasts open source contributors and web app developers who intend to add python web technologies in their skillsets and startup companies the understanding of the core python language with intermediate level expertise is required and experience of working with sql html css and javascript is an added advantage table of contents 1 python for cgi 2 wsgi 3 flask fundamentals 4 url routing 5 rendering templates 6 static files 7 http objects 8 using databases 9 more flask extensions 10 blueprints and contexts 11 api with flask 12 deploying flask applications 13 appendix

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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

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

python programming essentials build real world applications from scratch is the perfect resource for developers looking to master python and take their skills to the next level whether you're a beginner or an experienced programmer this step by step guide will help you build robust real world applications using python's powerful features and clean syntax python has become one of the most versatile and popular programming languages used

across various fields such as web development data analysis automation machine learning and more in this book you'll learn the essentials of python programming explore best practices and get hands on experience by building practical applications from scratch what you'll learn in python programming essentials introduction to python understand the basics of python including its syntax data types and core concepts learn why python is widely used in industry and how its simple yet powerful nature makes it ideal for developers of all experience levels setting up your development environment learn how to set up python on your local machine install and manage packages using pip and work with virtual environments this section also covers useful development tools and ides to optimize your coding workflow core python concepts dive into python's core features such as variables loops conditionals functions and classes master the fundamentals and understand how to use them to build flexible and efficient applications data structures and algorithms learn about python's built in data structures like lists tuples dictionaries and sets understand when to use each one and how to write efficient algorithms for sorting searching and iterating through data object oriented programming in python master the principles of object oriented programming oop in python learn how to create classes manage inheritance implement polymorphism and design applications with reusable and modular code working with files and databases discover how to work with external files read and write data and interact with databases learn how to connect to sql databases execute queries and perform crud create read update delete operations with python building applications with python explore web development with python by building a simple web application using flask or django learn how to handle http requests create templates manage user input and build dynamic web pages building and consuming apis learn how to work with apis in python both by consuming external apis and creating your own understand how to make http requests handle responses and build restful apis to integrate with other applications error

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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

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editing and debugging jupyter notebook 10 mastering tkinter gui capabilities using vs code
11 developing flask based applications 12 working with containers in azure

solve problems by embedding python code in a c programs sql methods python sockets
this book uses rudimentary mathematics and basic programming to create practical python
applications for embedding you'll start with an introduction to c and python assuming a
fundamental understanding of what programming is you will also review the basics of the
database management language sql you will learn how to use sql from a c program and
from a python program c and python have different programming strengths and you will
learn how to write a python program embedded within a c program to profit from the
strength of each in one program finally you will explore how socket programs enable two
computers to communicate with each other here the book covers basic server client basic
threaded and basic chat programs you will review basic python and c coding understand
the methods of embedding python code within a c program create typical programs in
python and c using sdk work with socket applications in python

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
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chapter you will also be introduced to cx freeze to build freeze a wx python application

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on aws using python to grasp api programming who this book is for this book is for cloud developers software developers and it specialists who want to develop python applications on aws as well as learn the concepts underlying aws services for implementing the applications experience in python programming is needed to be able to implement the applications on aws

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

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expert annotations show when and how to customize python code examples to fit

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understand the principles and practices of machine learning and deep learning this hands on guide lays out machine learning and deep learning techniques and technologies in a style that is approachable using just the basic math required written by a pair of experts in the field machine learning and deep learning using python and tensorflow contains case studies in several industries including banking insurance e commerce retail and healthcare the book shows how to utilize machine learning and deep learning functions in today s smart devices and apps you will get download links for datasets code and sample projects referred to in the text coverage includes machine learning and deep learning concepts python programming and statistics fundamentals regression and logistic regression decision trees model selection and cross validation cluster analysis random forests and boosting artificial neural networks tensorflow and keras deep learning hyperparameters convolutional neural networks recurrent neural networks and long short term memory

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