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Become a Professional Python Programmer Bundle

Modality: On Demand Duration: 40 Hours

Python programming is one of the most demanded skill sets in today's job market, and for good reason. Python allows you to do just about anything you can think of; web development, data analytics, game development - even controlling robots!

This Python Programming Professional Bundle is designed to get you up to speed with all the major Python skills you need right now. Learn on your own time and at your own pace, just be sure to learn this stuff.

What Can You Learn?

Python Programming for Beginners: If your knowledge of Python and programming is limited – or even non-existent – then this course is the perfect starting point for you. You'll be guided through the installation process and the various features and functions of Python, and then you'll put your knew found knowledge to practical use by solving 'real life' programming problems. Ideal for both programming beginners or experienced programmers new to Python.

Python Web Programming: Python is one of the most concise and easily understood programming languages out there, and one of its most popular applications is the web. This is the definitive python web programming course, designed for programmers, web developers, app creators, and anyone who wants to become 'code literate'. Not only will you acquire an in-depth understanding of the programming language and its application for the web, you'll get hands-on experience building programs too.

Python Game Development: Create a Flappy Bird Clone: As well as web development, data visualisation and analysis, and a host of other applications, Python is a programming language perfectly suited to game development. With this course, you'll learn the easy way. Rather than working through hours of lectures and exercises, you'll literally create a game as you go. Who said picking up new skills can't be fun?

Data Visualisation with Python and Matplotlib: Companies are finally waking up to the benefits that big data and data analysis can have for their business. However, the majority of them lack the knowhow to turn this data into something easily understood, readable, and presentable. That's where data visualisation comes in. Using Python in conjunction with Matplotlib, you can create just about any 2D or 3D graphs, bar charts, scatter plots, and more.

Data Analysis with Python and Pandas: Data analysis is one of the most sought-after skills from the biggest companies in the world, and guesses what? Python can be used to do it. Working with Pandas, you'll learn how to import and export data in a wide variety of forms, and organise and manipulate it into whatever way you need. Combined with our Data Visualisation with Python course below, it's all your need to become a genuine data guru.

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Learn Python Django from Scratch: If you already have some experience with Python, web development or both, then this is the perfect course to take your expertise to the next level. Working in conjunction with Django you'll create a website from scratch featuring map integration, ecommerce functionality and a host of other complex features. Master this skillset, and you'll be all set to take the web by storm with database-driven yet simple and beautiful sites.

Go Where the Money is

Companies such as Google, Yahoo!, Disney, Nokia, and IBM all use Python. In fact, among programming languages, Python had the largest year-on-year job demand growth — at 19% — as of March 2013. This growth has been increasing ever since. Notably, the overall hiring demand for IT professionals dipped year over year by 5% as of January 2014, except for Python programmers which increased by 8.7%. In New York, Python developers ranked #8 of the most in-demand tech workers, making an average of \$106k/year. On the other side of the Atlantic, Python programmers also enjoy a strongly rising demand for their skills.

Audience:

- Programmers
- Python developers
- People who want to create web applications
- People who want to learn programming
- People interested in Python databases
- · People seeking to learn a variety of ways to visually display data
- People who seek to gain a deep understanding of options for visualizing data.
- People looking for methods to normalize the handling of multiple data types and databases

Prerequisite:

- PC, Mac or Linux Operating Systems
- Up to \$5 for a Digital Ocean VPS. VPS cost can be per hour, at an average of \$5 a month, so the cost of the server can actually be much less than this.
- Python 3 should be installed
- The course is taught using PyCharm as the editor, as there is a free multiplatform version available. This is not required, but recommended
- Git is used for version control throughout the course, so it is advised to have it installed and ready for use

Suggested prerequisite course:

Python Programming for Beginners

Python Programming Introduction

Course Outline:

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- Python Programming for Beginners
- Getting Started with Python
- Variables, Loops and Statements
- If Statments
- Functions and Global and Local Variables
- Understanding Error Detection
- Working with Files and Classes
- Intermediate Python
- Final Project
- Python Web Programming
- Python Programming Review
- · Basic Database (SQLite) with Python
- Using Python with the Internet
- Working with HTML
- Intro to Web Server Programming
- MySQL database with Python
- Python's Flask Web development Framework
- Course Conclusion
- Learn Python Django From Scratch
- Overview of the Final Project
- · Introduction to Django
- Quiz Review
- Creating a User Authentication System
- Quiz Review
- Frontending
- Quiz Review
- E-Commerce
- Quiz Review
- File Uploading, Ajax and E-mailing
- Quiz Review
- Geolocation and Map Integration
- Quiz Review
- Django Power-Ups: Services and Signals
- Quiz Review
- Testing Your Site
- Quiz Review
- Course Conclusion
- Data Analysis with Python and Pandas
- Introduction to the Course
- Introduction to Pandas
- IO Tools
- Pandas Operations
- Handling for Missing Data / Outliers
- Combining Dataframes
- Advanced Operations
- Working with Databases
- Course Conclusion
- Data Visualization with Python and Matplotlib

- Course Introduction
- Different types of basic Matplotlib charts
- Basic Customization Options
- Advanced Customization Options
- Geographical Plotting with Basemap
- 3D graphing
- Course Conclusion
- Python Object Oriented Programming Fundamentals
- Introduction to the Course
- Essential Constructs
- The Python Object
- The Constructor/Destructor Magic Methods
- Class Inheritance
- Final Project
- Course Conclusion
- Python Game Development Create a Flappy Bird Clone
- · Introduction to the Course and the Game
- Graphics Setup
- Creating Input Controls
- Boundaries, Crash Events and Menu Creation
- Creating Obstacles Using Polygons
- Game Logic: Using Block Logic
- Game Logic: Success Or Failure
- · Creating the Score Display
- Adding Colors and Difficulty Levels
- Python Libraries Bundle Scrapy, SciPy, NumPy, IPython, BeautifulSoup
- Python Scrapy Scrape Web Data Using Python
- Python SciPy The Open Source Python Library
- Python NumPy Scientific Computing with Python
- Learn iPython The Full Python IDE
- Python BeautifulSoup Extract Web Data Beautifully

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