LearnQuest

Python Scripting for DevOps Specialization

Learn to develop and deploy software using Python. This specialization will provide you with foundation in the fundamentals of programming, including knowledge and skills essential for a career in software engineering, information technology and data science.

Instructor: <u>Aspen Olmsted</u>

7,517 already enrolled

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4 course series
Get in-depth knowledge of a subject

4.1 ★
(188 reviews)

Beginner level
Recommended experience ⊙

4 weeks to complete
at 10 hours a week

Flexible schedule
Learn at your own pace

What you'll learn

In the first course, you will learn some of the concepts of procedural programming: user input, console output, variable declaration and assignment, decision branching and iteration.

The second course will introduce you to Advanced String Operations and Dates, Modeling Classes, Development of Classes and Collections. In the third course you'll learn about Files, Inheritance and external libraries.

And in the final course we will look at several automation concepts in DevOps with Python.

Applied Learning Project

In the Python Scripting for DevOps Specialization, the hands-on labs in each course will allow you to apply the material in the lectures in simple computer programs designed to re-enforce the material in the lesson. These labs are browser-based and do not require a local environment to be installed.

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Skills you'll gain

| Computer Programming | Python Programming | Test Automation | Data Visualization | Matplotlib | CI/CD | Package and Software Management |

| Pandas (Python Package) | Development Testing | Scripting | Data Structures | Unit Testing | Programming Principles | Software Testing | DevOps |

| Docker (Software) | Containerization | Data Modeling | Unified Modeling Language | Data Manipulation | **View less skills** |

Details to know

in

Shareable certificate
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▭ **Taught in English**

21 languages available

Advance your subject-matter expertise

- Learn in-demand skills from university and industry experts
- Master a subject or tool with hands-on projects
- Develop a deep understanding of key concepts
- Earn a career certificate from LearnQuest

Specialization - 4 course series

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Applied Learning Project

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PY   **Introduction to Python Scripting for DevOps**
      Course 1 • 17 hours   Course details ∧

What you'll learn

Develop computer programs that utilize classes and objects to solve business and mathematical problems

Skills you'll gain

Scripting   Python Programming   Computer Programming   Programming Principles   Command-Line Interface   Debugging   Microsoft Visual Studio

Python Scripting: Dates, Classes and Collections

Course 2 • 14 hours

Python Scripting: Files, Inheritance, and Databases

Course 3 • 12 hours

Course details ^

What you'll learn

✓ Develop computer programs that utilize classes and objects to solve business and mathematical problems

Skills you'll gain

Python Programming   Object Oriented Programming (OOP)   Matplotlib   Data Manipulation   File Management   NumPy   Scripting

Pandas (Python Package)   Data Import/Export   Database Application   Scripting Languages   Data Visualization   Databases

DevOps and Build Automation with Python

Course 4 • 13 hours

Earn a career certificate

Add this credential to your LinkedIn profile, resume, or CV. Share it on social media and in your performance review.

Instructor

Aspen Olmsted
LearnQuest
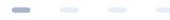14 Courses • 85,100 learners

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Frequently asked questions

∧   **How long does it take to complete the Specialization?**

To complete all four courses in the specialization, you will spend 4-6 hours per week for 16 weeks.

∨   **What background knowledge is necessary?**

∧   **Do I need to take the courses in a specific order?**

Yes, because each course builds on the prior course, we recommend that you take them in order.

∨   **Will I earn university credit for completing the Specialization?**

∨   **What will I be able to do upon completing the Specialization?**

∨   **Is this course really 100% online? Do I need to attend any classes in person?**

∨   **Can I just enroll in a single course?**

∨   **Is financial aid available?**

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More questions
?

Visit the learner help center

Financial aid available, learn more

Skills

Artificial Intelligence (AI)

Cybersecurity

Data Analytics

Digital Marketing

English Speaking

Generative AI (GenAI)

Microsoft Excel

Microsoft Power BI

Project Management

Python

Certificates & Programs

Google Cybersecurity Certificate

Google Data Analytics Certificate

Google IT Support Certificate

Google Project Management Certificate

Google UX Design Certificate

IBM Data Analyst Certificate

IBM Data Science Certificate

Machine Learning Certificate

Microsoft Power BI Data Analyst Certificate

UI / UX Design Certificate

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Business

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Data Science

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Engineering

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Healthcare

Human Resources (HR)

Information Technology (IT)

Marketing

Career Resources

Career Aptitude Test

Examples of Strengths and Weaknesses for Job Interviews

High-Income Skills to Learn

How Does Cryptocurrency Work?

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