




 Programmierung


Back-End Web-Development in Django

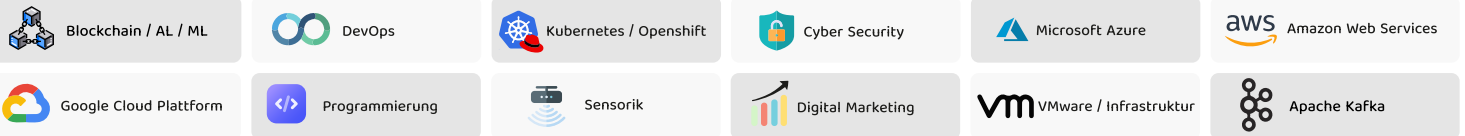
#080201

 CHF 9.000
exkl. MwSt.

 Beginn: 08/01/2024
Ende: 02/02/2024

 Dauer: 20 Tage

 Ort: Circle 6
Zürich Airport



Key Learnings

- Integration of Object-Relational Databases with Python
- Basic ORM functions and Database management
- Authentication
- API Design and Development
- App development in Python with FastAP

Target Group

Experienced: Junior backend developers, frontend developers

Anforderungen

Basic Python including:

- Basic logic: If/else, try/except, for/while
- Data types: list, int, float, string, dict, set, etc...
- Object Oriented Programming: Functions and Classes
- Basic Familiarity with Unix-based command-line
- Basic Familiarity with Version-Control like Git (NOT Mandatory)
- API basics (NOT Mandatory)
- REST (post, get, delete, etc...)
- Database Basics (NOT Mandatory)
- Basic SQL queries
- Data Modeling / ORM

Programm Inhalt

Week 1:

- Introduction to Git
- Introduction to Object-Relational Databases
- Object-Oriented Python — Revisited Introduction to ORM
- Database Management and best-practices

Week 2:

- Introduction to HTTP
- RESTful API fundamentals
- Encryption basics
- Server Architectures: On-Prem vs. Remote vs. Serverless
- Introduction to Docker

Week 3:

- Introduction to Authentication
- Security best practices
- More advanced ORM and Data-Modelling
- Unit Testing
- Intro to Technical Documentation

Week 4:

- Collaborative work with Git
- Deployment and DevOps basics
- Performance Optimization
- Serving a frontend
- Examples of Projects
- Students complete their own API backend app in Python!

Technologies:

Python, Django, Flask, FastAPI, SQLAlchemy, SQL, Docker, Heroku, AWS / GCP, Nine.ch

Target Group;

Experienced: Junior backend developers, frontend developers

Result:

Start-To-Finish Web-application for serving data via REST API