



techventive.io
US Engineering Studio

Cohort enrolling now

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PYTHON DEVELOPER BOOTCAMP

Python *Developer*

6 weeks · Beginner+ to Intermediate · live + recorded

A hands-on Python curriculum covering core language, OOP, modern frameworks (Django, Flask, FastAPI), database ORM, testing with pytest, async / concurrency, API design, packaging, and deployment — delivered by senior US Python engineers who ship production services.

10

CORE MODULES

35+

PRACTICAL SKILLS

5+

PROJECT TRACKS

1:1

CAREER SUPPORT

The *production stack* you'll master

Each tool taught with the workflows and failure modes practitioners actually meet on the job.

01

Python 3.12
Modern Python

02

FastAPI
Async APIs

	03 Django Full-stack framework
	04 Flask Microframework
	05 SQLAlchemy Database ORM
	06 Pytest Testing framework
	07 Pydantic Data validation
	08 Poetry Packaging & deps
	09 Docker Containerization
	10 Uvicorn ASGI server

Foundation *modules*

First half of the curriculum – core fundamentals and the most common day-to-day skills.

01 Python Core Variables, types, control flow, comprehensions, functions, decorators, generators, context managers, idiomatic Python.
02 Object-Oriented Python Classes, inheritance, magic methods (dunder), data classes, ABCs, type hints, protocols, structural typing.
03

Standard Library Deep-Dive

collections, itertools, functools, pathlib, datetime, logging, argparse, json, subprocess, asyncio basics.

04

Testing with Pytest

Fixtures, parametrize, mocking, async tests, coverage, TDD, property-based testing with hypothesis.

05

Web with Flask

Routes, request/response, templates (Jinja2), forms, sessions, blueprints, deployment behind Gunicorn.

Freshers

Build the Python skills and projects to land your first dev role.

Career Switchers

Move into Python development from any background — analytics, ops, support.

Self-Taught Devs

Plug the gaps — testing, async, packaging, real-world deployment.

Polyglots

Add production-grade Python to your existing toolkit.

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Advanced *modules*

Second half – production patterns, real-world operations, and the senior-level depth.

06

Modern APIs with FastAPI

Path/query/body params, Pydantic schemas, dependency injection, OpenAPI auto-docs, OAuth2, background tasks.

07

Django Framework

Models, ORM, admin, views, URL routing, templates, forms, REST framework, Celery integration.

08

Async & Concurrency

asyncio, async/await, threading vs. multiprocessing vs. async, GIL, real-world async patterns.

09

Packaging & Distribution

Poetry, pyproject.toml, virtual envs, publishing to PyPI, semver, building wheels.

Deployment & Ops

Docker, Uvicorn + Gunicorn, env config, logging, observability, deploying to AWS / Render / Fly.io.

🔑 Hands-on project outcomes

- Build and deploy a FastAPI service with Pydantic validation and OpenAPI docs.
- Build a Django app with admin, ORM, and Celery background tasks.
- Write a 90%+ tested Python package using pytest fixtures and mocks.
- Publish a real Python package to PyPI.
- Write idiomatic async code with asyncio.
- Containerize a Python app with Docker and deploy to the cloud.
- Use SQLAlchemy to model and migrate a real schema.
- Profile and optimize a slow Python function.

🎓 Course learnings

- Idiomatic Python — the 'Pythonic' way.
- Modern frameworks: FastAPI, Django, Flask.
- Testing as a daily practice with pytest.
- Async, concurrency, and parallelism in Python.
- Production packaging and deployment.
- Database ORM design with SQLAlchemy and Django ORM.

Career readiness, *built in.*

techventive.io turns this curriculum into job-ready positioning — project explanation, résumé and LinkedIn rewrites, GitHub portfolio polish, technical interview preparation, and placement-focused guidance through to the offer letter.

Python Developer

Backend Engineer

API Developer

Django Developer

FastAPI Engineer

DevOps + Python Engineer

Freshers

Career Switchers

Self-Taught Devs

Polyglots

Start your Python Developer journey with techventive.io.

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