

Python Full Stack Development

A structured six-month path from fundamentals to deployment

Build modern web applications with Python, Django, FastAPI, React, databases, and deployment workflows.

Months 1 to 3

MONTH 1

Python and Programming Foundations

- Python syntax, data types, control flow, and functions
- Object-oriented programming, modules, exceptions, and file handling
- Git, GitHub, virtual environments, and coding practice

MONTH 2

Databases and Backend Basics

- SQL, relational modelling, joins, and database design
- Django fundamentals, models, admin panel, and templates
- Forms, validation, authentication, and CRUD applications

MONTH 3

APIs and Backend Services

- Django REST Framework and REST API design
- FastAPI, Pydantic validation, and async fundamentals
- JWT authentication, permissions, testing, and API documentation

How you will learn

A practical delivery model that connects lessons, lab work, and career readiness.



LEARN

Instructor-led concepts and guided demonstrations.



BUILD

Hands-on lab work and portfolio-ready assignments.



PREPARE

GitHub projects, mock interviews, and placement support.

Months 4 to 6

Build, integrate, deploy, and present your work with confidence.

MONTH 4

Frontend Development

- HTML5, CSS3, responsive layouts, and JavaScript
- React components, props, state, hooks, and routing
- Forms, API integration, and reusable interface patterns

MONTH 5

Full Stack Integration

- Connect React interfaces to Django and FastAPI services
- Role-based access, media uploads, caching, and error handling
- Build production-ready workflows with clean project structure

MONTH 6

Deployment and Capstone

- Docker basics, environment variables, and deployment readiness
- Deploy APIs and frontends with monitoring fundamentals
- Complete a full stack capstone and placement preparation

Applied learning and career preparation

Projects are designed to turn each monthly module into a practical portfolio outcome.

PROJECT PORTFOLIO

- Student management portal
- REST API and authentication service
- E-commerce or booking application
- Full stack capstone project

TOOLS YOU WILL USE

Python, Django, FastAPI, SQL, React, Git, Docker

Outcome

Complete the course with a practical capstone, version-controlled projects, and the skills to discuss your work confidently in interviews.