

COUNTRYEDU PRIVATE LIMITED

GSTIN : 06AAJCC6151A1Z3 | CIN : U72900HR2021PTC096283

Email : query@countryedu.com, grievances@countryedu.com

Python Full Stack Development Immersion Internship

Designed by: CountryEdu Private Limited

By CountryEdu Private Limited

(IT Managed Services & EdTech Solutions)

Program Objective :

To transform students into job-ready Python Full Stack Developers capable of:

- Building complete web applications using Python and modern frontend technologies
- Understanding frontend, backend, database, and server-side development workflows
- Developing responsive user interfaces and scalable backend systems using Python frameworks
- Gaining hands-on experience in API development, database integration, and deployment
- Learning industry-standard coding practices, debugging, and version control workflows
- Preparing students for careers in Python Full Stack Development and Software Engineering

Program Structure :

- Duration: 12 Weeks (3 Months)
- Mode: Hybrid / Live / Classroom
- Tools Used: HTML5, CSS3, JavaScript, Python, Django, MySQL, Bootstrap, GitHub, VS Code
- Learning Model: Project-Based Learning Model
- Final Outcome: Ability to build and deploy complete Python full stack web applications + Internship Certificate

MONTH 1 – FRONTEND DEVELOPMENT & PYTHON BASICS

Week 1: Introduction to Web Development & Python

- Introduction to Python Full Stack Development
- Understanding Web Applications & Architecture
- HTML Basics & Webpage Structure
- Introduction to CSS
- Python Fundamentals
- Variables & Data Types

~ Outcome: Strong foundation in frontend development and Python programming basics

Week 2: CSS, JavaScript & Responsive Design

- CSS Styling Fundamentals
- Flexbox & CSS Grid
- Responsive Web Design
- JavaScript Fundamentals
- Functions & DOM Manipulation
- Bootstrap Framework Basics

~ Outcome: Ability to build responsive and interactive web pages

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Week 3: Advanced Python Programming

- Functions & Modules
- Lists, Tuples & Dictionaries
- File Handling
- Exception Handling
- Object-Oriented Programming
- Python Best Practices

~ Outcome: Ability to write structured and reusable Python programs

Week 4: Django Framework Fundamentals

- Introduction to Django
- Django Project Structure
- Creating Applications in Django
- URLs & Views
- Templates & Static Files
- Forms Handling Basics
- ~ Outcome: Ability to build dynamic backend applications using Django

MONTH 2 – BACKEND DEVELOPMENT & DATABASE MANAGEMENT

Week 5: Database Integration with Django

- Introduction to Databases
- MySQL Fundamentals
- Django ORM Basics
- CRUD Operations
- Database Connectivity
- Data Modeling Basics

~ Outcome: Ability to manage and integrate databases with Django applications

Week 6: Advanced Django Development

- Authentication & Authorization
- User Registration & Login Systems
- Session Management
- Django Admin Panel
- Middleware Basics
- Error Handling Techniques

~ Outcome: Ability to build secure and scalable backend systems using Django

Week 7: APIs & Full Stack Integration

- REST API Basics
- API Development using Django
- JSON Handling
- Connecting Frontend with Backend
- API Testing Basics
- Full Stack Workflow

~ Outcome: Ability to integrate frontend interfaces with Python backend systems

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Week 8 : GitHub & Deployment

- Git & GitHub Workflow
- Version Control Basics
- Debugging & Testing
- Environment Variables
- Deployment using Python Hosting Platforms
- Project Optimization Techniques
- ~ Outcome: Ability to professionally manage and deploy Python full stack applications

MONTH 3 – LIVE PROJECT & CAREER READINESS

Week 9–10: Python Full Stack Project Development

Students work on real-world Python Full Stack Projects such as:

- E-Commerce Website
- Student Management System
- Blogging Platform
- Online Quiz Application
- Expense Tracker System
- Task Management Application

Project Includes:

- Requirement Analysis
- UI & Database Planning
- Frontend & Backend Development
- Testing & Debugging
- Final Project Presentation

~ Outcome: Ability to build complete real-world Python full stack applications

Week 11: Deployment & Professional Workflow

- Full Stack Application Deployment
- Hosting & Domain Basics
- Environment Configuration
- Project Documentation
- Portfolio Development
- GitHub Project Management
- ~ Outcome: Ability to professionally deploy and present Python full stack projects online

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Week 12: Interview & Career Preparation

- Python Full Stack Technical Interview Preparation
- Resume & LinkedIn Optimization
- Mock Interviews
- Coding Challenges
- Freelancing & Internship Guidance
- Career Pathways (Python Full Stack Developer, Django Developer, Backend Developer, Software Engineer)
- ~ Outcome: Placement-ready Python Full Stack Developer with practical project experience

Key Skills Developed

- HTML5, CSS3 & JavaScript
- Python Programming
- Django Framework
- MySQL Database Management
- REST API Development
- Authentication & Security
- Git & GitHub Workflow
- Full Stack Deployment

Target Roles After Completion

- Python Full Stack Developer
- Django Developer
- Backend Developer
- Web Application Developer
- Software Engineer
- Freelance Python Developer

Why This Program is Industry-Ready

- ✓ 100% Project-Based Learning
- ✓ Real-world Python Full Stack Application Development
- ✓ Frontend + Backend + Database Exposure
- ✓ Industry-standard Development Practices
- ✓ Portfolio & Career Preparation Included

From Beginner to Professional — Become a Python Full Stack Development Expert in 3 Months.