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# COUNTRYEDU PRIVATE LIMITED

GSTIN : 06AAJCC6151A1Z3 | CIN : U72900HR2021PTC096283

Email : [query@countryedu.com](mailto:query@countryedu.com), [grievances@countryedu.com](mailto:grievances@countryedu.com)

## 2-Months Python Full Stack Development Immersion Internship

Designed by: CountryEdu Private Limited

### By CountryEdu Private Limited

(IT Managed Services & EdTech Solutions)

#### Program Objective :

- Understanding full-stack web application development using Python and modern web technologies
- Developing expertise in frontend development, backend development, database management, and API integration
- Learning Python programming, web frameworks, authentication systems, and deployment techniques
- Building scalable, secure, and data-driven web applications using industry-standard tools
- Understanding software development lifecycle, version control, and project management methodologies
- Preparing students for careers in Python Full Stack Development, Software Engineering, Web Development, and Full Stack Engineering

#### Program Structure :

- Duration: 8 Weeks (2 Months)
- Mode: Hybrid / Live / Classroom
- Tools Used: Python, Django, Flask, HTML5, CSS3, JavaScript, MySQL, SQLite, GitHub, VS Code
- Final Outcome: Full Stack Web Application Project + Internship Certificate

## MONTH 1 – PYTHON FULL STACK FOUNDATION

### Week 1: Introduction to Python & Web Development Fundamentals

- Introduction to Full Stack Development
- Python Programming Fundamentals
- Variables, Data Types & Operators
- Functions, Loops & Conditional Statements
- Development Environment Setup

~ Outcome: Strong foundation in Python programming and modern web development concepts.

### Week 2: Frontend Development Fundamentals

- HTML5 Fundamentals
- CSS3 Styling & Responsive Design
- JavaScript Basics
- Forms & User Input Handling
- Frontend Design Best Practices

~ Outcome: Ability to create responsive and interactive web interfaces.

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## Week 3: Backend Development with Python

- Introduction to Django & Flask
- URL Routing & Request Handling
- Templates & Dynamic Content Rendering
- MVC/MVT Architecture Concepts
- Backend Application Development

~ Outcome: Ability to build dynamic backend applications using Python frameworks.

## Week 4: Database Management & ORM

- Database Fundamentals
- MySQL & SQLite Integration
- CRUD Operations
- Django ORM Fundamentals
- Database Design & Relationships

~ Outcome: Ability to design and manage databases efficiently for web applications.

## MONTH 2 – ADVANCED PYTHON FULL STACK DEVELOPMENT

### Week 5: API Development & Frontend-Backend Integration

- REST API Fundamentals
- API Development using Django REST Framework
- JSON Data Handling
- Frontend-Backend Communication
- API Testing & Validation

~ Outcome: Ability to develop APIs and integrate frontend applications with backend systems.

### Week 6: Authentication & Security

- User Registration & Login Systems
- Authentication & Authorization
- Session & Cookie Management
- Password Encryption Techniques
- Web Application Security Best Practices

~ Outcome: Ability to implement secure authentication and authorization systems.

### Week 7: Advanced Full Stack Features & Optimization

- File Upload & Media Management
- Email Integration & Notifications
- Performance Optimization Techniques
- Error Handling & Debugging
- Application Scalability Concepts

~ Outcome: Ability to build optimized, feature-rich, and scalable web applications.

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## Week 8: Deployment & Professional Development Workflow

- Git & GitHub Version Control
- Project Documentation Standards
- Cloud Deployment Fundamentals
- CI/CD Concepts
- Industry Best Practices

~ Outcome: Ability to deploy and manage production-ready Python full stack applications professionally.

## LIVE PROJECT & CAREER READINESS

### Major Project Development

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

- E-Commerce Web Application
- Student Management System
- Employee Management Portal
- Online Learning Management System
- Hospital Management System
- Customer Relationship Management (CRM) Platform

Project Includes:

- Requirement Analysis & Planning
- Frontend UI Development
- Backend Development using Python
- Database Design & Integration
- Authentication & Security Implementation
- Testing, Deployment & Final Presentation

~ Outcome: Fully functional industry-level Python Full Stack application demonstrating frontend development, backend development, database integration, authentication, and deployment capabilities.

**From beginner to job-ready — Become a Python Full Stack Development Professional in 2 Months.**