Inkollu Pavan Kumar

Software Engineer

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Professional Summary

Software Engineering Intern with hands-on experience in **Python**, **Django**, REST APIs, and cloud deployment using AWS and Docker. Developed a scalable FinTech-enabled e-commerce platform with secure **Razorpay integration**. Strong foundation in data structures, modular architecture, Agile methodologies, and writing clean, maintainable code. Eager to contribute to innovative, real-world projects in fast-paced environments.

Work Experience

Python Tutor (Freelance)   Mar 2022 – Jun 2023

- Delivered hands-on Python training focused on **OOP**, **Data Analysis**, and **Web Scraping**, helping over **10 students** transition from beginner to project-ready developers..
- **Designed** real-world mini-projects and custom exercises that boosted **concept retention** and student engagement by **30%**.
- **Mentored** students through building **RESTful API integrations**, enhancing their understanding of backend architecture and deployment workflows.
- Provided hands-on guidance in **Python programming** concepts, improving students' **problem-solving skills**.
- Facilitated live **debugging** and **code reviews**, instilling clean code practices and problem-solving techniques.

Education

Bachelor of Engineering in Electronics and Communication Engineering Sathyabama   **Jun 2019**
Institute of Science and Technology, Chennai. **Academic Percentage:** 73%

Intermediate Education (Mathematics, Physics, Chemistry)   **Apr 2015**
Sri Chaitanya Educational Institute, Vijayawada, AP

Skills

Programming Web Development: Python (Advanced), Django, JavaScript, HTML, CSS.

API Development: RESTful APIs, Web Scraping, Razorpay Payment Gateway, Secure Transaction Processing.

Databases & Libraries: MySQL (Optimized Queries), MongoDB (NoSQL), NumPy, Pandas, Matplotlib.

DevOps & Cloud Technologies: : Docker, AWS EC2/S3, CI/CD Pipelines

Version Control Workflow: Git, GitHub, Agile, Scrum.

Code Quality Debugging: Unit Testing (unittest), Integration Testing, Code Reviews, Debugging, Clean Code Practices

Soft Skills: Problem Solving, Analytical Thinking, Team Collaboration, Self-Management, Adaptability

Projects

ShopWave: Scalable E-commerce Platform   GitHub Repo
Tech Stack: Django, MySQL, RESTful APIs, AWS EC2, Razorpay, Docker

- **Developed** a fully functional e-commerce platform using **Django** and **MySQL**, featuring product listing, cart, secure checkout, and user authentication.
- Built and integrated **RESTful APIs** to handle frontend-**backend** communication and improved **load time by 25%** using efficient queries and caching strategies.
- **Integrated Razorpay Payment Gateway** to enable secure financial transactions, simulating a real-world **FinTech payment** system.
- Deployed the application on **AWS EC2** for high-traffic handling, ensuring 99.9% uptime and seamless cloud scalability.
- **Containerized** the entire app using **Docker** to ensure consistent deployment across environments.

Certifications

- **Full-Stack Python Development**, PythonLife   2024
- **Introduction to Cloud Computing on AWS**, Udemy   2025