Uday Krishna

Software Engineer | Python | FastAPI | PostgreSQL | AWS | Docker | CI/CD
■ Bengaluru, India | ■ uday.krishna.dev@example.com | ■ +91 98765 43210 | ■ linkedin.com/in/udaykrishna

Professional Summary

Results-driven Software Engineer with strong expertise in Python, FastAPI, and PostgreSQL for building scalable backend systems. Experienced in containerization with Docker and orchestration with Kubernetes, along with hands-on deployment on AWS cloud platforms. Proficient in CI/CD pipelines, API design, and agile development methodologies. Passionate about delivering efficient, reliable, and secure software solutions while adhering to best coding practices.

Core Competencies

Programming:	Python, JavaScript, SQL
Frameworks:	FastAPI, Flask, React
Databases:	PostgreSQL, MySQL
DevOps & Cloud:	AWS (EC2, S3, Lambda), Docker, Kubernetes, Jenkins, GitHub Actions
Concepts:	REST API Design, CI/CD, Agile Development, Microservices, Unit Testing

Professional Experience

Software Engineer Intern | CloudX Labs (Jan 2024 – Jul 2024)
- Designed and developed RESTful APIs using FastAPI to support internal microservices and data operations. - Managed PostgreSQL databases, optimized queries, and ensured 99.9% uptime using AWS RDS. - Containerized applications using Docker and deployed on AWS EC2 with Kubernetes orchestration. - Implemented CI/CD workflows via Jenkins to automate testing and deployment. - Participated in agile sprints, peer code reviews, and documentation.

Backend Developer (Freelance) | CodeForge Technologies (Aug 2024 – Present)
- Developed secure authentication systems using JWT and OAuth2 within FastAPI. - Integrated AWS S3 for file storage and built scalable APIs for analytics dashboards. - Applied CI/CD practices with GitHub Actions, ensuring seamless production deployments. - Monitored and optimized service performance using Prometheus and Grafana.

Key Projects

1. RAG-Based Resume Screener
Built a Retrieval-Augmented Generation system using OpenAI embeddings and FAISS for intelligent resume-to-job matching. Implemented FastAPI backend to serve recommendations and deployed on AWS Lambda.

2. DevOps Pipeline Automation
Automated a complete CI/CD pipeline using Docker, Jenkins, and Kubernetes for deploying containerized Python microservices to AWS EKS clusters.

3. TaskFlow API
Developed a production-ready FastAPI project for task management with PostgreSQL, Redis caching, and background Celery workers for asynchronous tasks.

Education

Bachelor of Technology in Computer Science and Engineering
Visvesvaraya Technological University, Belagavi — 2024

Certifications

- AWS Certified Cloud Practitioner — Amazon Web Services (2024)
- Python for Data Engineering — Coursera (2023)
- Docker & Kubernetes for Developers — Udemy (2023)

Achievements

- Increased API response efficiency by 40% by optimizing database queries. - Awarded 'Best Intern Developer' at CloudX Labs for backend automation project. - Contributed to open-source FastAPI extensions improving API performance.