

Uday Krishna

Software Engineer | Python | FastAPI | SQL | AWS

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Professional Summary

Motivated and detail-oriented Software Engineer with hands-on experience in developing and deploying scalable backend systems using Python and FastAPI. Proficient in managing databases, implementing CI/CD pipelines, and leveraging AWS cloud infrastructure. Passionate about building efficient APIs, optimizing performance, and contributing to innovative software solutions in agile environments.

Technical Skills

Programming Languages:	Python, JavaScript, SQL
Frameworks & Tools:	FastAPI, Flask, Docker, Git, Kubernetes
Databases:	PostgreSQL, MySQL, MongoDB
Cloud & DevOps:	AWS (EC2, S3), CI/CD, Jenkins
Other:	RESTful API Design, Agile, Unit Testing

Experience

Software Engineer Intern | TechNova Systems (Jan 2024 – Jul 2024)

- Developed RESTful APIs with FastAPI for internal tools, improving data retrieval efficiency by 30%. - Integrated PostgreSQL for managing structured data and optimized database queries. - Collaborated with the frontend team to ensure seamless integration of APIs using JSON standards. - Deployed services on AWS EC2 and managed CI/CD workflows with Jenkins.

Backend Developer (Freelance) (Aug 2024 – Present)

- Designed and implemented scalable backend modules using FastAPI and Docker. - Built authentication and user management systems leveraging JWT. - Managed cloud-hosted databases and implemented monitoring using Prometheus.

Education

Bachelor of Technology in Computer Science

Osmania University, Hyderabad — 2024

Projects

AI Document Retriever (RAG System)

Developed a retrieval-augmented generation pipeline using FastAPI, ChromaDB, and OpenAI embeddings to provide contextual document-based answers.

Task Manager App

Built a full-stack task management application with FastAPI backend and React frontend, integrating user authentication and real-time notifications.

Certifications

- AWS Cloud Practitioner Essentials (2024)
- Python for Everybody – Coursera (2023)