SAHIL NEGI

Backend Developer | Python • FastAPI • REST APIs • Docker • AWS • Microservices

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PROFESSIONAL SUMMARY

Backend Developer with over 1 year of hands-on experience in building scalable RESTful APIs and microservices using Python, FastAPI, Flask, and PostgreSQL. Skilled in containerization (Docker), cloud services (Azure, AWS), and secure authentication (JWT, OAuth2). Passionate about AI/ML integrations, with real-world deployment experience using LangChain and OpenCV. Strong focus on CI/CD, code quality, and cloud-native backend architecture.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL
Frameworks: FastAPI, Flask, Express.js
Cloud/DevOps: Docker, GitHub Actions, CI/CD, Azure, AWS (Lambda, S3, EC2, SNS, SQS - basic)
Databases: PostgreSQL, MongoDB, MySQL
Authentication: JWT, OAuth2, Role-Based Access
AI/ML Tools: LangChain, YOLOv5, OpenCV, Pandas, NumPy, Seaborn, Matplotlib, Scikit-learn
Other Tools: Git, Postman, Swagger, VS Code, Linux

WORK EXPERIENCE

Freelance | Backend Developer   *Remote   Jul 2023 – Apr 2024*

- Built and deployed 5+ scalable REST APIs with FastAPI and Flask, handling 1000+ daily API calls.
- Designed microservices architecture using containerized services (Docker) and event-driven patterns.
- Implemented secure authentication using JWT and OAuth2 across services.
- Automated CI/CD workflows using GitHub Actions and Docker for zero-downtime deployments.
- Integrated LangChain and ChromaDB for a vector-based AI chatbot deployed on Azure.

Freelance | Full Stack Developer   *Remote   Dec 2022 – Jul 2023*

- Developed full-stack applications using React, Flask, and PostgreSQL with modular API design.
- Collaborated with frontend teams to design APIs; ensured 90%+ test coverage using Postman and Swagger.
- Deployed applications using Docker and configured GitHub Actions for CI/CD pipelines.

PROJECTS

AskMyNotes (AI Chatbot) — FastAPI, LangChain, ChromaDB, Azure
Vector-based chatbot for PDF QA with <2s response time; deployed with CI/CD on Azure.

Real-Time Chat App — MERN, Socket.io, Vercel
Built chat system with JWT auth, file uploads, and real-time messaging using WebSocket events.

Face Detection API — YOLOv5, Flask, OpenCV
Built ML-powered API for image-based face detection using YOLOv5; exposed endpoints via Flask.

EDUCATION

B.Com — Delhi University   *2021–2024*
Self-learning CS, backend engineering, and AI/ML. Exploring formal CS Master's (OMSCS, IIIT-H, etc.)

CERTIFICATIONS

Python Bootcamp (Udemy) | MERN Stack (Udemy) | AWS Cloud Essentials (Coursera, in progress)