

Sahil Odedra

Software & Cloud Engineer

Rajkot, India — Phone: 9484797378 — Sahilodedra26@gmail.com

GitHub: Sahil-Odedra — LinkedIn: sahil-odedra

Portfolio: sahilodedra.me

Summary

Backend-focused developer with strong fundamentals in Java, Python, and cloud technologies. Experienced in building containerized web applications and automating CI/CD pipelines using Docker, GitHub Actions, and AWS.

Experience

- **Cloud and DevOps Intern** — Maincrafts Technology Feb 2026 – April 2026
 - Deployed and managed applications on AWS using EC2, S3, and CloudFront for static hosting.
 - Automated build and deployment workflows using Docker and GitHub Actions CI/CD pipelines with Nginx reverse proxy on EC2.

Education

- **Nirma University, Ahmedabad** 2024–2026
Master of Computer Applications (MCA): CGPA 8.47
- **Christ College, Rajkot** 2021–2024
Bachelor of Computer Applications (BCA): First Distinction

Projects

- **Hospital Management System** GitHub
Full-featured hospital platform built with Java (JSP) and MySQL, hosted on Google Cloud Run with Cloud SQL, covering end-to-end hospital operations across multiple roles.
 - Role-based modules for Admin, Doctors, Patients, and Staff with secure RBAC authentication.
 - Real-time appointment slot availability for patients to self-book and prevent double booking.
 - Doctor prescriptions and reports auto-added to patient billing; in-patient deposit deducted from final bill.
 - Medical inventory tracking with automated low-stock email alerts sent to suppliers.
- **RAG Chatbot**
Document-based Q&A chatbot using Flask, LangChain, and Google Gemini with pgvector on Cloud SQL for semantic search.
 - Built RAG pipeline with Gemini embeddings and LangChain for context-aware responses over uploaded PDF, DOCX, and TXT files.
 - Deployed on Google Cloud Run with automated Docker-based CI/CD pipeline triggered on every code push.
- **Blockchain Based Traffic Challan System** GitHub
Decentralized e-challan system using Ethereum, Flask, and Google Cloud Storage for transparent violation management.
 - Deployed smart contracts on Ethereum Sepolia testnet; built Flask backend with RBAC for police, admin, and citizens.

Certifications and Achievements

- **AWS Academy:** Cloud Developing
- **Oracle:** OCI AI Foundations
- **DSA:** Solved 300+ problems across platforms

Skills

- **Languages:** Java, Python, C/C++
- **Technologies:** Flask, Docker, AWS, S3, Google Cloud, GitHub Actions, JSP, MySQL, Git
- **Concepts:** OOP, Data Structures, Cloud, RAG, Vector Databases