RAMESH CHANDRA POLA

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EDUCATION

Sardar Vallabhbhai National Institute of Technology, Surat (NIT Surat) 2020 - 2024
Electronics and Communication (B. Tech) **CGPA: 8.12**

WORK EXPERIENCE

Full Stack Engineer *Freelancer* June 2025 - Present

- Architected and developed a multi-tenant Business Intelligence platform from the ground up, enabling institutions to securely upload, process, and visualize large-scale datasets through automated **ETL** pipelines, schema-driven data modeling, and Power BI dashboards. Designed for scale and reliability using **PostgreSQL (AWS RDS), Redis (BullMQ), and Node.js**, ensuring data integrity, isolation, and high performance across all tenants.
- Led the end-to-end system architecture, development, and cloud deployment, implementing **RBAC** security, **CI/CD** (GitHub Actions), **caching, monitoring**, and **AWS infrastructure (S3, RDS, EC2)**. Owned every technical layer, including backend, frontend, and DevOps, delivering a production-grade analytics platform that runs with minimal latency and zero downtime.

Backend & AI Developer *Jobflow* Jan 2025 - May 2025

- Built a full job portal backend in **Python** with scalable schemas (jobs, users, companies), integrating 15+ custom scrapers, automated apply workflows, and an NLP-based matcher using a fine-tuned 8B+ **LLM**. Also delivered multiple backend projects using **Node.js**, **Django**, and **FastAPI**, implementing RBAC, payment systems, real-time WebSockets, and REST APIs. Developed **LLM**-powered chatbots and RAG pipelines with **LangChain** and vector databases (FAISS, Pinecone). Used **Redis** for caching, cron jobs for sync, and deployed everything via **Docker**, **CI/CD**, and **AWS (EC2, S3, Lambda)**.

TECHNICAL PROJECTS

Expense Management Web App

- Developed and deployed a full-stack expense tracker with React frontend and secure **RESTful API**s using **Spring Boot**, with data stored in **MySQL (Aiven Cloud).**
- Implemented CRUD operations for expense management and financial insights. Secured endpoints with **JWT** authentication and **Spring Security**. Dockerized the backend for scalable deployment on Render.

SKRILLS SUMMARY

Languages:	Golang, Python, Java, JavaScript, C, C++
Frameworks & Libraries:	Node.js, Express.js, React.js, FastAPI, Django, Spring Boot.
Databases & Tools:	PostgreSQL, MongoDB, Redis, RabbitMQ, Docker, GraphQL, AWS (EC2, S3, RDS).
Dev Practices:	RESTful API Design, Authentication (JWT/OTP), CI/CD, Event-driven Architecture, Cron Jobs, Performance Optimization, Unit Testing, Git-based Workflow.
AI & Integrations:	LangChain, RAG Pipelines, OpenAI APIs, Twilio API, Webhooks, WebSockets.
Core CS Concepts:	Data Structures, Algorithms, OOP, DBMS, Networking, Operating Systems.
Soft Skills:	Leadership, Collaboration, Technical Communication, Agile Development.

PROGRAMMING ACHIEVEMENTS

- Won **4+** hackathons, including runner-up at Hack the Tank 2.0 and Top 5 at Dot Slash 6.0 (1000+ teams), for building full-fledged applications using **Agile development**, robust API integrations, and real-time user flows in fast-paced team environments.
- Contributed to open-source **GenAI** projects, implementing LLM-based pipelines, optimizing backend systems, and developing modular **Python/TypeScript** utilities for vector search, prompt orchestration, and async workflows.