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Education

National Institute of Technology, Raipur

Bachelor of Technology (B.Tech) in Computer Science and Engineering

Aug 2023 – May 2027

CGPA: 8.06/10

Experience

Software Engineering Intern (AI Platform)

Apr 2026 – Present

Culinda

Remote

- Shipped backend microservices in **Python/FastAPI** for ITSM and Contract Lifecycle Management products, exposing **REST APIs** and scaling asynchronous services to **4x** throughput.
- Cut P95 response latency from **2.8s to 120ms** via a **Redis** semantic-caching layer over vector embeddings, and automated ingestion and indexing of **10,000+** documents.
- Reduced **LLM inference** cost by **35%** through prompt caching, small-model routing, and response-length capping, with answer quality held flat via A/B evaluation.
- Improved RAG answer relevance by **18%** by tuning chunking and top-k retrieval, adding a reranking pass, and validating changes against an offline evaluation harness.

Projects

RidePulse | Go, Kafka, Redis, PostgreSQL, Docker, Prometheus, REST

Feb 2026

A distributed ride-matching dispatch system that pairs riders with nearby drivers in real time.

- Built an event-driven microservices backend using **Kafka** to process **10,000+** simulated ride events per minute with at-least-once delivery and zero message loss.
- Developed a geospatial matching engine on **Redis GEO** with atomic locking (SETNX + TTL), achieving **P90 driver-assignment latency under 45ms**.
- Reduced Redis lock contention by **40%** via a bounded parallel locking strategy.
- Wrote concurrent **Go** services sustaining **500+ RPS**; verified API correctness with Postman, monitored latency and error metrics via **Prometheus**, and containerized services with **Docker** for reproducible runs.

LUMEN | Python, Flask, SQLAlchemy, ChromaDB, Google Vision API, OpenRouter

Nov 2025

An AI-powered financial analytics platform for invoice processing and natural-language querying.

- Architected a multi-agent AI backend on **Flask** that routes natural-language finance queries through a **Query Classifier** to a **SQL Agent**, a **RAG system** (ChromaDB), or an **Analytics Orchestrator**, unifying structured and unstructured data access.
- Built the invoice ingestion path (**Google Vision API** + pdf2image) to extract and normalize fields from images and multi-page PDFs, persisting to PostgreSQL/SQLite via **SQLAlchemy**.
- Implemented anomaly detection using **Isolation Forest** to flag suspicious transactions, and a spending-forecast agent (exponential smoothing with trend and seasonality) that projects 30-day spending with confidence intervals.
- Wrote **Pytest** suites over analytics endpoints, chart generation, and recurring-pattern detection; secured user-scoped routes with JWT auth via PyJWT.

Technical Skills

Languages: Python, Go, C++, SQL

Backend & Frameworks: FastAPI, Flask, Gin, REST APIs, Microservices, SQLAlchemy

Databases: PostgreSQL, Redis, SQLite, ChromaDB (vector)

Infrastructure & Tools: Docker, Git, Linux, Kafka, Prometheus, Postman, Pytest, CI/CD

Concepts: Data Structures & Algorithms, Object-Oriented Design, System Design, Distributed Systems, Concurrency, Operating Systems, DBMS, Computer Networks

AI / ML: Retrieval-Augmented Generation (RAG), Vector Search, Multi-Agent Systems, LLM Integration, LangChain

Achievements

- LeetCode** — **2108** rating (top **2%** globally).
- Codeforces** — **1483** max rating (**Specialist**).
- Ranked **86th out of 27,000+** participants in LeetCode Biweekly Contest 169.
- Runner-up, AI Track** at Hack-a-Sol Hackathon, IIIT Naya Raipur.