

HIMANSHU KUMARE

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LinkedIn

Github

Ahmedabad, Gujarat

OBJECTIVE

Backend-focused engineer who enjoys turning complex problems into scalable systems, from event-driven microservices to AI-powered applications. Strong foundation in **data structures, algorithms, Java, and Spring Boot**, backed by hands-on projects spanning **distributed systems and AI-driven features**. Looking to bring this problem-solving mindset to a real-world engineering team.

PROJECTS

IntellectAI — Spring Boot | WebSocket | LLM/RAG

Github

- Built a real-time quiz platform using **STOMP over WebSockets**, supporting **multiple concurrent sessions** with live scoring and timer management.
- Designed an **adaptive learning engine** that tracks per-user mastery and dynamically adjusts **difficulty and concept progression** using the **Gemini API**.
- Implemented a **RAG pipeline** to parse user-uploaded documents into semantic chunks, enabling **context-grounded question generation** from a vector database.
- Reduced redundant content via **vector similarity search** on question embeddings, cutting **15-20% duplicate questions** and LLM token usage.
- Secured REST and WebSocket sessions with **JWT authentication**, and cached reusable concept hierarchies to reduce repeated LLM calls by **20-30%**.

SafeVault — Spring Boot | Microservices

Github

- Architected **5 independent microservices** (Accounts, Transactions, Security, Notifications, API Gateway) each owning its own database for loose coupling and independent deployment.
- Implemented **stateless JWT authentication** with OTP verification via Twilio for secure user login and session management.
- Built **event-driven communication** using **Apache Kafka** across multiple topics, decoupling services and enabling async processing.
- Implemented the **Saga pattern** with compensating transactions to ensure eventual consistency across distributed banking operations.
- Enabled **dynamic service discovery** and routing via **Eureka** and **Spring Cloud API Gateway**, cutting hardcoded service dependencies.

FaultLine — Java | OOP | CLI Tool

Github

- Built a **command-line log analysis tool** using **Core Java** with a modular package structure.
- Implemented flexible analyzers using **interfaces, polymorphism**, and constructor-based **dependency injection**.
- Developed a **robust parser** to process raw log files, transforming unstructured text into structured data for analysis using **Java Streams**.

TECHNICAL SKILLS

Languages: Java, C++, Python

Backend & Frameworks: Spring Boot, Spring Security, Spring Data JPA, Hibernate, RESTful APIs, WebSocket (STOMP/SockJS)

Databases & Messaging: PostgreSQL, Redis, Apache Kafka, JDBC, Vector DB

AI/ML: Gemini API, RAG, Prompt Engineering, Semantic Embeddings, LLM Integration

DevOps & Tools: Docker, Docker Compose, Git/GitHub, Maven, IntelliJ IDEA, VS Code

EDUCATION

Sardar Vallabhbhai National Institute of Technology

2023 – 2027

B.Tech in Electronic and Communication Engineering - CGPA - 7.59

Surat, Gujarat

Seventh Day Adventist Higher Secondary School

2021 – 2023

Class 12th - ISC - Percentage - 79.8%

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