

GELVESH GANGADHARA SWAMY

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SUMMARY

Software Engineer with **3 years of experience** building and scaling distributed systems and **REST APIs** using **Java, Python**. Proven ability to design high-throughput, fault-tolerant services with Kafka, **microservices** architecture, and modern front-end frameworks like **React**. Proficient in **MySQL, Redis, and MongoDB**, with hands-on experience in **AWS**.

EDUCATION

UNIVERSITY OF CALIFORNIA, RIVERSIDE

RIVERSIDE, CALIFORNIA

Master's Degree in Computer Science (GPA: 3.7)

January 2026 (Expected)

Selective Coursework: Data Structures & Algorithms, Database Management, Software Testing, Machine Learning

DAYANANDA SAGAR COLLEGE OF ENGINEERING

INDIA

Bachelor of Engineering (GPA: 3.88/4.0)

June 2021

SKILLS

- **Programming Languages:** Java, Python, C++, Object-Oriented Programming
- **Frontend:** React, JavaScript, HTML, CSS
- **Backend & Frameworks:** Spring Boot, REST APIs, JUnit, Kafka, GraphQL
- **Databases (SQL and NoSQL):** MySQL, Postgres, MongoDB, Redis
- **Cloud & DevOps:** AWS, Docker, CI/CD Pipelines, Jenkins, Git, Bitbucket
- **Practices:** Microservices, System Design, Agile, Scrum

WORK EXPERIENCE

LTIMINDTREE

INDIA

Software Engineer

August 2021 – August 2024

- Re-architected fraud case management from monolith to **distributed Java Spring Boot microservices & REST APIs**, cutting response times **35–45%** and achieving **92–96% JUnit test coverage**.
- Implemented a scalable **Kafka**-based ingestion system processing **40k–80k XML messages** daily, achieving **100%** message delivery with JSON persistence in **MongoDB**.
- Delivered a **robust Java backend API** for card blocking, eliminating reliance on fragile robotic processes and accelerating **fraud prevention** workflows.
- Led development of resilient end-to-end **microservices** in collaboration with **cross-functional teams**, replacing legacy robotic systems, minimizing fraud costs and boosting operational reliability.
- Owned full **Software Development Life Cycle** responsibilities (planning, coding, testing, deployment, on-call support, **peer code reviews**), ensuring stability of production systems.

ACADEMIC PROJECTS

Decisive Restaurant Recommender | [Github](#)

- Engineered a **full stack web application** using **React** and **Python backend API** integrating **Machine Learning predictions (XGBoost)** with Google Maps **API**, achieving **88% accuracy** for real-time restaurant recommendations.

YouTube Rag Chatbot | [Github](#)

- Designed a **Retrieval-Augmented Generation (RAG) backend** for YouTube Q&A using **Python** and LlamaIndex, achieving over **95%** accuracy in retrieving contextually relevant transcript segments.

Multi-Agent AI Travel Planner | [Github](#)

- Developed a **Multi-Agent AI Travel Planner** using **Google ADK** and **A2A protocol**, orchestrating modular **FastAPI** based **LLM** microservices with real-time **API** communication and an interactive Streamlit UI.

CERTIFICATIONS

- [AWS Cloud Quest: Cloud Practitioner](#) – Amazon Web Services (AWS)