

# Ishan Jawade

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## SUMMARY

Driven Computer Science graduate student with hands-on experience in full-stack development, cloud deployment, DevOps, and embedded systems. Skilled in Java, Spring Boot, Golang, and C with a strong foundation in data structures, CI/CD pipelines, AI/ML, RAG, and computer networks. Proven ability to deliver scalable and high-performance systems.

## EXPERIENCE

### Masycoda Solutions – Application Developer

Nov 2022 - Aug 2023

- Built and scaled a distributed finance web platform using Spring Boot and RESTful APIs, reducing P95 backend latency by 25% through query optimization, Redis-based caching, and database indexing.
- Designed and deployed automated payment failure analysis pipelines using Python, structured log processing, and alerting, delivering a 40% gain in operational efficiency across the entire system.

### Accenture – Application Developer Associate

Aug 2021 - Oct 2022

- Engineered Spring Boot microservices for a large-scale financial platform, service-oriented architecture, which improved horizontal scalability, fault isolation, and system extensibility by 25% under production workloads.
- Assembled and optimized CI/CD pipelines using Jenkins and Docker, introducing automated testing, containerized builds, and staged deployments, resulting in a 15% reduction in deployment time and improved release reliability.

## SKILLS

<b>Languages:</b>	Java, C, C++, Golang, Python, JavaScript
<b>Frameworks:</b>	Spring Boot, React.js, Node.js
<b>Databases:</b>	MongoDB, PostgreSQL, MySQL
<b>Tools &amp; OS:</b>	Linux, Git, AWS, Jenkins, Docker, Kubernetes, CI/CD, REST APIs, n8n
<b>AI/ML:</b>	MCP Server, RAG, LLM, TensorFlow, Keras, Model Tuning and Training
<b>Embedded &amp; Others:</b>	Shell-Scripting (Bash), ESP32, Arduino, Raspberry Pi, Socket Programming

## PROJECTS

### HIPAA-Compliant Medical Records Management System

- Constructed a full-stack web application using React.js, Spring Boot, and PostgreSQL to manage hospital patient data securely and give patients complete control of their data and the ability to monitor access.
- Implemented Role-Based Access Control (RBAC), AES encryption for data storage, system-wide immutable logs for secure data sharing and monitoring, and secure file sharing.

### RAG-Based Customer Support Chatbot

- Designed and implemented an end-to-end Retrieval-Augmented Generation (RAG) customer support chatbot leveraging LangChain orchestration and OpenAI APIs, enabling context-aware, document-grounded responses.
- Ingested and vectorized company documents using PostgreSQL with pgvector for efficient semantic retrieval.
- Deployed a containerized React-FastAPI application on AWS using Docker for scalable cloud hosting.

### Cloud-Deployed Expense Tracker

- Architected and developed a secure full-stack expense tracking application using React, Spring Boot, and PostgreSQL, implementing JWT-based authentication, role-based access control, optimized schema design, and dynamic real-time financial dashboards for user-specific analytics.
- Automated CI/CD deployment with Jenkins pipelines and Docker containers on AWS for continuous delivery.
- Integrated optional AI-driven expense categorization using LLM-based text classification for more insights.

### E-Commerce Platform with DevOps Automation

- Built a microservice-based e-commerce platform using a React frontend and Spring Boot backend with Postgres for persistent storage, enabling modular scalability, service isolation, and efficient inter-service communication.
- Automated CI/CD pipeline using Jenkins and Docker for continuous integration and deployment.
- Deployed scalable microservices on AWS EKS with Kubernetes orchestration and CloudFront CDN.

## EDUCATION

### M.S. in Computer Science - California State University, Fullerton (GPA 3.66)

Jan 2024 - Dec 2025

Software Engineering, Data Structures, Blockchain, Neural Networks, Computer Networks, Algorithms, Cloud Computing

## ACHIEVEMENTS & PUBLICATIONS

Won 1st Prize at Smart India Hackathon (SIH) 2019 for developing a full-stack patient data management system featuring RBAC, secure file sharing, JWT-based authentication, and a production-ready user interface in 36 hours.