

# 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, React.js, 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% and improving system responsiveness.
  - Designed and deployed automated payment failure analysis pipelines using Python, structured log processing, and alerting, delivering a 40% gain in operational efficiency.
- 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, improved release reliability.

## SKILLS

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|-------------------------------|--|
| <b>Languages:</b>             | Java, C, C++, 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           |
| <b>AI/ML:</b>                 | 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.
- Implemented Role-Based Access Control (RBAC) and AES encryption for secure data sharing, enhancing system security.

### RAG-Based Customer Support Chatbot

- Built an intelligent chatbot using a Retrieval-Augmented Generation (RAG) pipeline with LangChain and OpenAI API for context-aware Q&A.
- Ingested and vectorized company documents using PostgreSQL with pgvector for efficient semantic retrieval.
- Deployed a fully containerized React-FastAPI application on AWS (EC2/EKS) using Docker for scalable cloud hosting.

### Cloud-Deployed Expense Tracker

- Developed a full-stack expense tracker using React, Spring Boot, and PostgreSQL with secure JWT-based authentication and dynamic dashboards.
- 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 innovative financial insights.

### E-Commerce Platform with DevOps Automation

- Built a microservice-based e-commerce platform using React frontend and Spring Boot services (auth, cart, orders) with PostgreSQL for persistent storage.
- 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

### California State University, Fullerton – MS in Computer Science (GPA 3.66)

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

Jan 2024 - Dec 2025

## ACHIEVEMENTS & PUBLICATIONS

- 1st prize at the National Smart India Hackathon, 2019, conducted by the Gov. of India.
- PairNet: A Deep Learning Based Object Detection and Segmentation System. India Patent No. 202121029630.