

MANOHAR L U

Java Full Stack & AI Developer

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Professional Summary

Java Full Stack Developer experienced in building Full Stack web applications using Java, Spring Boot, Hibernate, REST APIs, MySQL, and React.js. Comfortable designing backend services, relational databases, and responsive user interfaces while applying Generative AI and LangChain to extend application capabilities. Experienced working in Agile environments with a focus on writing maintainable, scalable, and production-ready software.

Technical Skills

- **Languages:** Java, JavaScript
- **Full-Stack Development:** Spring Boot, Hibernate, Servlets, REST APIs, HTML5, CSS3, React.js
- **Databases:** MySQL, SQL
- **AI & Machine Learning:** Generative AI, LLMs, Prompt Engineering, LangChain, RAG, AI Agents
- **Testing & System Design:** Playwright (beginner-level automation); familiar with system design and architecture
- **Developer Tools & CI/CD:** Git, GitHub, Maven, IntelliJ IDEA, Jenkins, Google Workspace
- **Familiar With:** Microservices Architecture, System Design
- **Core CS:** Object-Oriented Programming (OOP), DBMS, Data Structures, Agile Methodology

Experience

Java Full Stack with AI (Full-time)

Jan 2026 – Jul 2026 (6 months)

JSpiders, Rajajinagar, Bengaluru

- Collaborated with a 5-member Agile development team across 5 sprints over a 6-month internship, building and enhancing full-stack web applications using Java, SQL, HTML5, CSS3, and JavaScript.
- Built API integrations in Spring MVC to perform CRUD operations against a MySQL database, and migrated data access from raw JDBC to Hibernate with Lombok, cutting down manually written SQL and boilerplate code through ORM-based entity mapping.
- Used IntelliJ IDEA as the primary development environment and worked with CI/CD pipelines (Jenkins, GitHub Actions) to support build and deployment workflows.
- Participated in sprint planning, implementation, testing, and code reviews, contributing to timely delivery of project milestones following Agile practices.
- Diagnosed and resolved up to 10 middleware and application issues per day across the 6-month internship, improving application stability and strengthening expertise in debugging and root-cause analysis.

Projects

Emotion-Based Music Recommendation System

Jul 2024 – Sep 2024

- Developed an AI-powered web application for real-time facial emotion recognition using a FER-2013 deep learning model, achieving up to 92% classification accuracy.
- Built an emotion-aware music recommendation pipeline that mapped detected emotions to curated playlists, improving recommendation relevance through data preprocessing, model tuning, and iterative validation.

GST Fraud Detection in Billing

Mar 2025 – May 2025

- Built a machine learning pipeline to flag suspicious GST billing transactions using 50,000 labeled payment records.
- Engineered features and trained an XGBoost classifier model, random forest, improving performance through iterative preprocessing and validation.

Quiz App with Difficulty Adaptation

Sep 2025 – Nov 2025

- Built a full-stack quiz app (React.js + Spring Boot) with 3 adaptive difficulty levels, 8 questions per level across multiple genres.
- Designed adaptive quiz logic that adjusts difficulty based on pupil's performance and helps aspirants evaluate their national-level exam readiness.

Education

Bachelor of Engineering in Computer Science and Design

2022 – 2026

Atria Institute of Technology CGPA: 7.31/10

Pre-University Education (PUC)

SFS PU College 79.6%

Certifications

- [Claude Code Course Completion Certificate](#)
- [Microsoft Learn – AI Skills Challenge](#)

Achievements

- Silver Medalist, VTU State-Level Indian Group Singing Competition (Carnatic Classical Group Performance)