

Vishal Patil

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Professional Summary

Backend Engineer with 1.4+ years architecting production Java, Spring Boot and Node.js microservices, with full-stack expertise across Flutter, Angular and React. Expertise delivering AWS-deployed hiring-platform architectures via REST API design, CI/CD automation, and IEEE-published AI security research.

Work Experience

Rasa Marcon Pvt. Ltd.

India

Software Engineer & Tech Lead

May 2025 – Present

- Designed and deployed **Karmika**, a production hiring platform, on **Java**, **Node.js** and **MongoDB** microservices across 4 **AWS-hosted** systems (Mobile App, Backend API, Admin Portal, CRM). Delivered **zero critical failures** and scaled to **5,000+ users** and **1,000+ job applications** by integrating **Flutter** and automated **CI/CD** pipelines.
- Leading Phase 2 as **Tech Lead**, driving full-stack architecture decisions and managing a **3-person engineering team** by implementing structured sprint planning, code reviews, and CI/CD pipelines for end-to-end feature delivery.

QSpiders

India

Java Developer Trainee

Mar 2025 – Sept 2025

- Engineered a Fuel Management System in **Java**, automating end-to-end fuel tracking by implementing **REST APIs** and **OOP design patterns**, and optimizing relational database architecture using **MySQL**.

Side Project

Enhanced AI-Driven Malware Detection – IEEE-Published Security System

Technologies: Python, Machine Learning, Pattern Matching, Reverse Engineering, Cloud

- Engineered a **4-stage** ML pipeline detecting malware across **5Cr+ files** with **98% accuracy**, cutting detection time from **6.84 minutes to under 1 second** by leading a **2-member** team from research through IEEE publication.

Projects

Employee Management System (Java, Spring Boot, Angular, PostgreSQL, Docker)

Jan 2025 – Present

- Engineered a full-stack HR platform with **JWT**-based role authentication (Admin, Manager, Employee), leave request & approval workflows, and **Swagger**-documented REST APIs, containerized via **Docker Compose** for portable cloud deployment. (*In Progress*)

Fuel Management System (Java, REST APIs, MySQL)

2025

- Built an end-to-end fuel tracking system in Java, automating manual workflows via OOP design patterns and optimizing relational database design using MySQL and RESTful APIs.

EduRack: E-Learning App (Flutter, Firebase | [Live](#) on Play Store)

Jul 2024 – May 2025

- Designed and shipped a production education app on **Flutter** and **Firebase**, serving **100+ students** from Jr.KG to competitive exams via secure authentication, real-time content delivery, and push notifications as **sole developer** end-to-end.

Technical Skills

Backend: Java, Spring Boot, Spring MVC, Node.js, Microservices, REST APIs, OOP Design Patterns.

Frontend & Mobile: Flutter, Kotlin, Angular, React, Web Technologies.

Databases: MySQL, PostgreSQL, MongoDB, Firebase, Supabase.

Cloud & DevOps: AWS (EC2, ECR, S3), Docker, CI/CD, GitHub, Swagger/OpenAPI, SDLC, Agile.

Other: JWT Auth, Payment Integration, App Deployment, UI/UX, LLM APIs, Cursor.

Achievements

- IEEE – Publication :** Co-authored "Hybrid Multi-Stage Malware Detection," 7th ICEPE 2025.
- Department Rank – 3 :** Certificate of Merit, B.E. Computer Engineering, University of Mumbai (2024–25).
- JP – Morgan :** Completed the Software Engineering Virtual Experience Program.

Education

University of Mumbai

India

B.E. Computer Engineering (Department **Rank 3**) – CGPA: 8.0

2025