

Vishal Kesharwani

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Summary

Java backend engineer with internship experience building 15+ production-grade REST APIs (Spring Boot, PostgreSQL, MySQL, MongoDB). Built and deployed event-driven microservices with Kafka, Kubernetes, and a full observability stack (Prometheus, Grafana, OpenTelemetry). AWS Certified Cloud Practitioner (1000/1000). Seeking Backend Engineer roles in distributed systems and cloud-native platforms.

Education

MIT Academy of Engineering, Pune

Bachelor of Technology in Computer Engineering

2022 – 2026

CGPA: 8.53/10

Experience

Backend Developer Intern – SteepGraph Systems Pvt. Ltd.

Feb 2026 – Jun 2026

Java, Spring Boot, Spring Security, Angular, ETL, PostgreSQL

Pune, India

- **Enterprise Backend Development:** Designed and developed 15+ production-grade REST APIs using Java, Spring Boot, and PostgreSQL for large-scale enterprise applications, with secure endpoint access via Spring Security; managed builds and dependencies using Gradle.
- **ETL Optimization:** Optimized ETL validation via debouncing logic (cutting redundant DB lookups by 50%) and a real-time SQL table extractor auto-suggesting table names from live DB metadata; managed a modular extract-transform-load pipeline on a master-slave node architecture with gRPC-based inter-node communication.
- **Maintenance & Code Review:** Maintained and fixed bugs across 10+ modular service-layer components (SOLID, Clean Architecture); reviewed merge requests and contributed to enterprise data migration pipelines.

Cloud & DevOps Intern – SortUs

Jun 2025 – Aug 2025

Node.js, MongoDB, AWS Lambda, GitHub Actions, REST APIs, Jira

Pune, India (Remote)

- **Backend Development:** Built scalable Node.js and MongoDB backend modules and documented REST APIs for seamless frontend-backend integration.
- **DevOps Automation:** Automated serverless deployments via AWS Lambda and GitHub Actions, cutting manual release effort by an estimated 30%; managed sprints in Agile/Scrum via Jira.

Projects

Cloud-Native Job Application Tracker – Event-Driven Observability Platform

GitHub Repository

Java 21, Spring Boot, Kafka, PostgreSQL, Redis, Kubernetes, Terraform, ArgoCD, Prometheus, Grafana

- Designed a distributed system of three independent Spring Boot microservices (application, notification, analytics) that communicate exclusively via Apache Kafka events, with zero direct service-to-service calls; built an analytics read-model in Redis fully rebuildable by replaying the event log.
- Implemented full observability with the Grafana LGTM stack (Prometheus, Loki, Tempo via OpenTelemetry), tracking per-service latency, event throughput, and pipeline conversion funnels.
- Deployed to Kubernetes (Kind) with liveness/readiness/startup probes; verified self-healing under pod failure and HPA autoscaling under load. Delivered via ArgoCD GitOps with automatic Git-to-cluster reconciliation; wrote and validated Terraform IaC for AWS EKS.

Knowledge Nexus – Full-Stack Mentorship Platform

GitHub Repository

React, TypeScript, Spring Boot, PostgreSQL, Kafka, Docker, JWT, WebSocket, Google OAuth, Google Calendar API

- Architected a full-stack mentorship platform with secure JWT authentication and Google OAuth2 authorization, supporting mentor discovery and session booking.
- Built scalable REST APIs using Spring Boot, Spring Data JPA, and Flyway with real-time chat via WebSocket/STOMP; integrated Google Calendar API via OAuth2 to auto-schedule sessions with Google Meet links.
- Engineered a Kafka-based event-driven notification system to decouple mentorship request lifecycle from notification creation; containerized the full stack (React/NGinx, Spring Boot, PostgreSQL, Kafka) via Docker Compose.

Pediatric Bone Age Assessment – Deep Learning Research

Conference Paper

Python, TensorFlow/Keras, CNN Ensembles, Grad-CAM

- Built an ensemble deep learning pipeline for pediatric bone age estimation from X-ray images (MAE 6.79 months, R^2 0.951 on stratified 85/15 split); applied Grad-CAM for interpretability and co-authored a conference paper with a 4-member research team under faculty supervision.

Achievements

- **AWS Certified Cloud Practitioner (CLF-C02):** Achieved a perfect score of 1000/1000 – [view credential](#).
- **Leadership:** Core Member & Design Lead, ACM Student Chapter, MITAOE. **Competitive Programming:** 80+ problems solved on LeetCode (Java).
- **Smart India Hackathon 2024:** Grand Finalist at the national-level innovation competition. **Flipkart Grid 7.0:** Ranked 1582 of 10,000+ submissions, Round 2, for Drishaak (edge-based traffic-violation detection).
- **Hackathons:** Winner, MITAOE E-Summit Ideathon 2024; First Runner-Up, Cavista Tech Hackathon; Runner-Up, Datathon 2025.

Technical Skills

- **Languages & Backend:** Java, Python, SQL, JavaScript, C++, Spring Boot, Spring Security, Spring Data JPA, Hibernate, REST APIs, JWT, OAuth2, WebSocket, Node.js
- **Frontend & Databases:** React.js, TypeScript, Angular (v20/v21 LTS), Axios, PostgreSQL, MongoDB, MySQL
- **Cloud, DevOps & Messaging:** AWS (EC2, S3, Lambda, IAM, RDS), Docker, Kubernetes, Apache Kafka, Redis, Terraform, ArgoCD, GitHub Actions, CI/CD, Maven, Gradle, npm, Git
- **Observability, Testing, Core CS & AI:** Prometheus, Grafana, OpenTelemetry, JUnit, Mockito, Selenium, TestNG, DSA, OOP, SOLID, System Design, TensorFlow, Keras, Grad-CAM, GitHub Copilot, Claude, ChatGPT