

Kartik Kumar

Software Engineer | Full-Stack Java & Spring Boot | Next.js

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PROFILE

Software Engineer specializing in scalable full-stack architectures and enterprise-level backend systems. Proven expertise in engineering high-performance solutions utilizing Java, Spring Boot, and modern Next.js environments to optimize data pipelines, reduce processing latency, and enforce robust network security protocols.

EXPERIENCE

AMDOX – Full-Stack Java Intern | Delhi, India | Jan 2026 – Mar 2026

- Engineered scalable backend architectures and RESTful APIs utilizing Java and Spring Boot to drive enterprise-level task management applications.
- Optimised complex SQL database queries, significantly reducing data retrieval latency for high-throughput environments.
- Earned dual certifications for mastering production Git ecosystems and successfully deploying the final architecture.

IBM – Cybersecurity Intern | Delhi, India | Jan 2025 – Mar 2025

- Spearheaded enterprise threat analysis and executed advanced network breach simulations to pressure-test existing defense matrices.
- Engineered a custom automated network analysis utility utilizing Python and Wireshark, increasing traffic anomaly detection capabilities.

PROJECTS

Prep AI – AI-Powered Interview Preparation Platform | Nov 2025 – Present

- Designed a high-throughput sentiment analysis module capable of processing real-time user inputs to deliver predictive performance analytics.
- Designed the backend data pipelines to reduce processing latency, seamlessly integrating Machine Learning models with user-friendly interfaces.

Vision-to-Code: Real-Time Translation Architecture | Java, Spring Boot, REST APIs, OOP

- Engineered a sophisticated parsing system that converts raw whiteboard architectural sketches into deployable, object-oriented code structures.
- Utilized Java and Spring Boot to build a scalable backend API, significantly reducing developer prototyping and deployment timelines.

SKILLS

Frontend & UI: Next.js, React.js, TypeScript, Tailwind CSS v4, Framer Motion

Backend Systems: Java, Spring Boot, Python, REST APIs, Microservices Architecture

Databases & Cloud: SQL, MySQL, MongoDB, PostgreSQL, CI/CD Deployments

Architecture & Security: Data Structures & Algorithms, Threat Analysis, Vulnerability Management, Git/GitHub, Agile Methodologies

CERTIFICATIONS

[AMDOX Full-Stack Java Intern Dual Certification](#) | IBM Cybersecurity Internship Certification | Vcare Java | Cisco Cybersecurity Essentials | MongoDB & SQL Bootcamp | Data Structures & Algorithms Bootcamp

EDUCATION AND RESEARCH

- **B.Tech, Computer Science and Engineering (CSE)** | Dronacharya Group of Institutions | 2022 – 2026
- **Publications:** Authored IEEE-standard research paper: "*PrepAI: Real-Time Sentiment Analysis and Predictive Architecture in Interview Simulations.*"
- **Leadership:** Strategic Operations Co-Leader in an international gaming network (400+ groups).