Ravi Shukla

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[GitHub](#) • [LeetCode](#) • [LinkedIn](#) • [Portfolio](#)

Summary

Backend-focused Senior Software Engineer with **3+ years** building scalable distributed systems using Java, Kafka, Redis, and Elasticsearch. Achieved **20%** infrastructure cost savings, **zero-downtime** Elasticsearch upgrade, and enhanced search performance with vector-based search and Large Language Model (LLM) integration. Looking for high-impact backend roles solving challenging technical problems.

Experience

Tracxn, Bangalore, India
Senior Software Engineer   May 2024 – Present

- Achieved **20% cost reduction** by managing resources, optimizing disk size for Elasticsearch.
- Executed **zero-downtime** migration of Elasticsearch (7.17 to 8.4), ensuring seamless operations.
- Enabled scalable pipelines by streaming **20M+ daily events** via Kafka-MongoDB integration.
- Implemented LLM and vector search framework, accelerating search capabilities by **20%**.
- Deployed production-ready vector search, boosting accuracy by **15%**.

Software Engineer   May 2022 – May 2024

- Enhanced code maintainability by migrating **15+ libraries** from Groovy to Java across **2 teams**.
- Slashed latency by **50%** by integrating Redis caching in **3 critical** data pipelines.
- Upgraded MongoDB clusters (**v5.0.13 to v6.0.3**), resolving critical production bugs and improving reliability.

Dominant Infotech, Surat, India
Node.js Intern   Feb 2022 – Apr 2022

- Built Crypto Trading APIs, integrating Binance and Tron for **1K+ daily transactions**.
- Delivered Result Portal API with mail verification, enabling secure user access.

Skills

- **Languages**: Java (expert), JavaScript (intermediate), Python (basic)
- **DevOps**: AWS, Git, GitHub
- **Frameworks**: Spring Boot, React, Node.js
- **Distributed Systems**: Elasticsearch, Logstash, Kibana, Redis, Kafka, Kafka Connect, Microservices
- **Concepts**: System Design, DSA, Vector Search, LLMs, Debugging, REST APIs

Personal Projects

Udemy Clone   [GitHub](#)

- Engineered an e-learning platform with cart and video streaming, optimized MongoDB for **2x faster** queries.
- Tech: MongoDB, React, Redux, Express, Node.js.

YouTube Music Clone   [GitHub](#)

- Built playlist and search features with scalable REST APIs using Node.js for smooth user experience.
- Tech: HTML, CSS, JavaScript, Node.js, Express.

Education

B.E. in Electronics & Communications, CGPA: **9.19**
Government Engineering College, Surat   2018 – 2022

Certificates

- Server-side Development, Coursera (2020).
- Software Engineering Job Simulation, J.P. Morgan via Forage (2020).

Interests

- Backend Development, System Design, Fitness