Rishav Raj

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Objective

B.Tech Computer Science graduate pursuing an SDE-1 role, proficient in designing and developing scalable, high-performance backend systems using Java and Spring Boot, with strong backend architecture skills.

Projects

InsightLog | Java, Concurrency, Maven **(GitHub)** | Oct 2025 - Nov 2025

- Architected real-time log aggregation system processing 16,000+ logs with 99.9% uptime using Java and concurrent processing.
- Engineered full-text search API delivering sub-second response times for 1,000+ queries using inverted indexing and REST APIs.
- Developed monitoring dashboard reducing debug time by 60% through real-time alerts and WebSocket-powered live updates.
- Implemented multi-format log parser handling JSON and text formats with 95% accuracy using custom parsing algorithms.

SpringLink | Java, Spring Boot, PostgreSQL, Maven **(GitHub)** | Aug 2025 - Sept 2025

- Developed a RESTful URL shortener using Spring Boot and PostgreSQL to generate short, trackable links.
- Implemented a layered architecture (Controller–Service–Repository) with optimized schema for indexed key lookups and expiry handling.
- Integrated JWT-based authentication for secure, user-specific link management, achieving 99% API reliability.
- Validated inputs, added expiry handling, and improved error management boosting API reliability.

JVMAnalyze | Java, Scripting, Prometheus **(GitHub)** | Jul 2025 – Aug 2025

- Engineered JVM profiling tool to resolve performance bottlenecks in enterprise Java applications.
- Developed real-time monitoring for heap usage, GC activity, and thread state tracking.
- Built JMX-based metrics collection processing 50+ metrics/sec with 99.9% data accuracy.
- Monitored GC pauses, memory outages using Prometheus monitoring, improving issue detection.

Technical Skills

Programming Languages: Java, SQL

Frameworks & Libraries: Spring Boot, Spring Data JPA

Databases & Caching: PostgreSQL

Cloud & DevOps: AWS(EC2, S3, IAM, Lambda), Git/GitHub, Docker
Build Tools: Maven

Education

B.Tech in Computer Science, VIT Bhopal University   Sept 2022 – Jul 2026
- CGPA: 8.49/10

Achievements

- **Problem Solving:** Solved 450+ coding problems on LeetCode and HackerRank, focusing on algorithms.
- Published 20+ technical blogs on **HashNode** on backend development, generating 50+ monthly views and engaging 30+ developers in the community.
- **Hackathon:** Landed a top 10 finish out of over 250 teams at the InnovativeYou Techathon in Pune
- **Leadership:** Led a team of 8 for CloudZone club event hosting 120+ participants effectively.