

Riyaz Sayyad

Java Backend Engineer

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Summary

Backend Engineer specializing in Java enterprise ecosystems, with a focus on concurrency control, cache invalidation, query profiling, and platform observability.

Skills & Tools

Java, Spring Boot, Spring Data JPA, Hibernate, REST APIs, SQL, PostgreSQL, SQL Server, Redis, ActiveMQ, Docker, AWS (Secrets Manager, API Gateway, CloudWatch, SQS), ELK Stack, Dynatrace, JProfiler, Jsoup, Git

Work Experience

Software Engineer I

Aug 2024 – Present

eGain Corporation, Pune, India

- **Concurrency/Limit Framework:** Engineered a concurrent, real-time quota framework for multi-tenant resource limits. Implemented optimistic locking with partition-based caching and retry handling to resolve thread contention under high write loads.
- **Redis Cache Optimization:** Tuned Redis cache performance by diagnosing and resolving CPU spikes from heavy Lua EVAL scripts. Re-architected data operations into batch operations (2,000 records) and migrated to lazy loading, reducing tail latency by 70% and restoring a healthy Redis CPU baseline.
- **Database Query & Schema Tuning:** Tuned relational database query performance by profiling hot tables and index fragmentation via EXPLAIN/ANALYZE. Eliminated N+1 query patterns and restructured stored procedures, reducing database load by 80%.
- **Security Vulnerability Remediation:** Remediated a critical security vulnerability in the Share Article API. Analyzed encrypted attack vectors and built a recursive sanitization pipeline using Jsoup, preventing HTML injection with zero regressions.
- **Hybrid Search Observability:** Instrumented event logging hooks across search workflows in collaboration with downstream model training teams, improving hybrid search traceability.

System Engineer

July 2022 – Aug 2024

Tata Consultancy Services, Pune, India (Client: Etisalat, UAE)

- **Maximo Enterprise Customization:** Customized transactional workflows and business logic within the Maximo enterprise framework using Java MBO libraries and Jython.
- **Query & Workflow Optimization:** Optimized SQL queries and indexing strategies for bulk order processing, reducing database response times by 70% for mobile clients.
- **JVM Diagnostics & Reliability:** Analyzed JVM diagnostics, thread dumps, and heap usage on WebSphere nodes to identify and resolve resource leaks, stabilizing system memory footprint.
- **Scheduled Batch / Cron Optimization:** Remediated database lock contention and resolved recurrent `SQLException` failures by restructuring daily cron batch workloads.
- **Platform Reliability & Automation (Web Mole):** Developed an operational reliability script (Web Mole) in Python to monitor WebSphere JVM status and automate targeted service restarts, minimizing unplanned platform downtime.
- **Operational Tooling:** Automated multi-source reporting workflows by writing a Python data aggregation utility, eliminating repetitive manual spreadsheet updates across the engineering team.

Developer Platform & Observability

Setup Manager (Internal Workflow Automation Tool)

- Built a developer utility using TypeScript and Python to compile and inject bytecode directly into target JAR files inside virtual machines.
- Reduced local debug cycle times by automating bytecode packaging and eliminating manual VM copy operations.

Log Search & Diagnostic Observability Engine

- Integrated a local LLM stack (Mistral 7B, LlamaIndex, Ollama) over ELK and CloudWatch log repositories.
- Developed a natural language query interface for system exceptions, reducing average incident Root Cause Analysis (RCA) time by 30%.

Distributed Log Aggregation & Trace Observability

- Configured Filebeat and Logstash Grok filters to parse JBoss and Hibernate logs into structured JSON format.
- Implemented cross-layer traceability by propagating `x-correlation-id` headers from the API Gateway down to database transaction boundaries.

Selected Projects

TrueCandidate (Kernel-Level Video Interview Platform)

- Designed a secure technical interviewing application incorporating kernel-level process monitoring to detect secondary execution tools during live technical screens.

Education & Credentials

Sant Gadge Baba Amravati University

B.E. in Computer Science and Engineering (Sipna COET)
CGPA: 8.91 / 10.00 (First class with distinction)

Amravati, Maharashtra, India
2018 – 2022

Crio.do Fellowship Program

Full Stack Software Development (Specialization in Java, Spring Boot, DSA, System Design)

Sept 2022 – May 2024

- Developed QEats (Spring Boot food ordering system) and XMeme (meme portal).
- Solved 400+ algorithmic and design problems.