

ZEBAA ALI

Backend Engineer | Java · Spring Boot · Distributed Systems · PostgreSQL · Redis · Docker

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SUMMARY

Backend Engineer with 4 years of distributed systems experience at Oracle. Built Java backend services handling enterprise-scale workloads, designed production REST APIs, and resolved 10+ Fortune 500 production incidents. Shipped 4 RDBMS features end-to-end and pioneered Oracle's first vector search workload library adopted across engineering teams. Currently building event-driven microservices in Spring Boot, Kafka, Redis, and Kubernetes. Immediate joiner.

TECHNICAL SKILLS

Languages: Java (8/11/17+), SQL, PL/SQL, Python, Shell Scripting

Backend: Spring Boot 3.x, REST API Design, Microservices, JPA, Hibernate, Spring Security, JWT, Maven, JUnit 5, Design Patterns

Databases: PostgreSQL, Redis, pgvector, Oracle Database, MySQL, NoSQL

Messaging & Caching: Apache Kafka, Redis (cache-aside, write-through, TTL, invalidation, Redis GEO)

Cloud & DevOps: Docker, Kubernetes, GitHub Actions CI/CD, Linux, Git

Observability: Prometheus, Grafana, OpenTelemetry, Micrometer, Structured Logging, EXPLAIN Plans, Query Optimization

DB Internals: MVCC, B-Tree & Hash Indexing, Connection Pooling, Partitioning, HNSW & IVF Vector Indexing

Engineering: Distributed Systems, Event-Driven Architecture, Concurrency, Multithreading, System Design, Data Structures & Algorithms, Agile, Scrum

PROFESSIONAL EXPERIENCE

Member of Technical Staff (MTS, IC2) | Oracle India Pvt. Ltd. | July 2022 – April 2026

Oracle Server Technologies Group | Backend Engineering & Distributed Systems | Noida

- **Owned 4 Oracle RDBMS features end-to-end** — Non-Positional INSERT, Object Number Reuse, Default VARCHAR2 Sizing, and Nested WITH Clause (enables MongoDB aggregation pipeline translation to Oracle SQL). Implemented and reviewed Java source changes, configured OLAP GLOBALDB and OLAP SSB Java-enabled schemas, shipped to Oracle 26.1 production release.
- **Built Java backend services on Oracle's internal Storch platform** — designed REST-style orchestration APIs, distributed job scheduling, and automated CI/CD deployment workflows across 10+ enterprise customer schemas (MERCK, GE, MSTR, HARTFORD, POSTBANK).
- **Sole responder for 10+ Fortune 500 production incidents** (Wells Fargo, MERCK, GE) — diagnosed failures using kernel logs, performance reports, and execution traces; classified root cause by system layer, and coordinated cross-timezone with US engineering teams to deliver fixes within SLA.
- **Engineered distributed performance validation systems** processing up to **5 billion rows** across Oracle RAC, Exadata, and Exascale — concurrent execution of 100 simultaneous database instances surfacing deadlock patterns, MVCC edge cases, and kernel failures that influenced Oracle RDBMS 23ai production hardening.
- Pioneered Oracle's **first parameterized vector search engine** — 500+ HNSW and IVF query workloads benchmarking p50/p95/p99 latency, recall@k, and throughput at billion-row scale. Adopted as standard library across Oracle RDBMS and cross-functional engineering teams.
- **Hardened production systems** by debugging and resolving 200+ defects across the Oracle codebase — shipped 13 fixes to production releases. Led Agile/Scrum delivery with cross-timezone US coordination. Absorbed departed colleague's full workload without impacting release timelines.

Software Engineer Intern | Wabtec Corporation | January 2022 – July 2022

- Built Java backend data pipelines and Microsoft SQL Server integrations for rail logistics. Developed MDM automation using Informatica PowerCenter — **reduced manual data reconciliation by 40%** across multiple enterprise source systems.

PROJECTS

OrderFlow — Event-Driven Delivery Platform | Java 17, Spring Boot, Kafka, PostgreSQL, Redis, Kubernetes, Docker | github.com/Zebaali-hub/orderflow

- Production-style microservices backend for food delivery — implements Saga-based order orchestration over Kafka, transactional outbox, idempotent consumers, retry + DLQ, Redis GEO driver matching, WebSocket live tracking, and Prometheus/Grafana/OpenTelemetry observability across 6 services deployed on Kubernetes.

Log Intelligence Tool | Java 17, Spring Boot, PostgreSQL, REST API, Docker | github.com/Zebaali-hub/log-intelligence-tool

- REST service automating backend incident triage — parses kernel logs, performance reports, execution traces, and Java stack traces across 7 failure layers; generates HTML and PDF root cause reports. Built from 4 years of Fortune 500 production incident analysis.

Database Stress Testing Framework | Java 17, Spring Boot, PostgreSQL, Redis, WebSocket, Docker | github.com/Zebaali-hub/db-stress-framework

- Configurable load-testing engine for JDBC databases — concurrent thread executor streaming real-time TPS and p50/p95/p99 latency over WebSocket; Redis cache-aside layer for result storage; PDF/JSON reporting. Productized from Oracle distributed systems work at billion-row scale.

EDUCATION

Bachelor of Technology, Computer Science | IGD TUW, Delhi NCR | May 2022