GARVIT JOSHI

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Portfolio · LinkedIn · GitHub

TECHNICAL SKILLS

Languages:	Java (8–21), SQL, Python, JavaScript
Frameworks:	Spring Boot, Spring Security, Spring Data JPA, Spring WebFlux, jOOQ, JDBC, AspectJ
Databases:	PostgreSQL, MySQL, Redis, Redisson, Neo4j, Amazon Redshift, DynamoDB
Infrastructure:	AWS (S3, EC2, Route 53, SES), Docker, Kubernetes, Apache Kafka, RabbitMQ
Concepts:	Virtual Threads, Reactive Programming, Distributed Systems, Keycloak, CI/CD, Git

PROFESSIONAL EXPERIENCE

MoveInSync — Bengaluru, Karnataka

Software Engineer 2 — April 2024 – Present

- Own routing and trip optimization services that allocate vehicles for employee transportation across multiple clients
- Introduced Neo4j for geocode storage, replacing relational lookups for geospatial route data
- Built automated error detection pipelines that surface issues before they become support tickets
- Profile and optimize routing algorithms; identified and fixed bottlenecks in the trip assignment path

Software Engineer — May 2022 – March 2024

- Built vehicle optimization algorithms that pack employees into trips based on routes, capacity, and time windows
- Designed employee scheduling system using genetic algorithms to minimize transportation cost
- Streamlined POI (point of interest) setup for client onboarding, replacing a multi-day manual process
- Created a Configuration Service allowing clients to customize routing parameters without code changes
- Added Redis caching layer to reduce database load on frequently queried route and schedule data

Software Engineer Intern — October 2021 – April 2022

- Expanded UI test automation coverage and reduced manual regression testing effort
- Migrated data access layer to Spring Data JPA and introduced query-level caching
- Wrote deployment automation scripts to replace a manual multi-step deployment process

OPEN SOURCE CONTRIBUTIONS

Spring Security — PR #18235 – Merged
Fixed thread-safety bug in Compromised Password Checker by creating a new SHA-1 MessageDigest per request instead of reusing a shared instance

Spring Boot — PR #48967 – Merged
Added truststore certificate exposure in the SSL info actuator endpoint; handled both PrivateKeyEntry and TrustedCertificateEntry types

PROJECTS

Locksmith *Java 17+, Spring Boot, Redis, Redisson, AspectJ* — GitHub · Maven Central
Spring Boot starter for Redis-based distributed coordination, published on Maven Central

- Provides `@DistributedLock`, `@DistributedSemaphore`, and `@RateLimit` annotations
- Uses AspectJ for annotation-driven locking with configurable timeouts and key expressions via SpEL

Vault *Java 21, Spring Boot, jOOQ, PostgreSQL, Kafka* — GitHub
Multi-tenant configuration management service with typed properties and audit history

- Stores and serves typed configurations (string, int, boolean, list) per service and tenant
- Publishes configuration change events to Kafka for downstream audit and replay

EDUCATION

Lovely Professional University — Jalandhar, Punjab
Bachelor of Technology in Computer Science — August 2018 – July 2022
GPA: 7.77/10.0

COMMUNITY

- Co-founded AWS Cloud Community-LPU; organized workshops on cloud computing and Java development
- Built the community's mailing service and registration tooling used for events with 200+ attendees