

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
Databases: PostgreSQL, MySQL, Redis, Neo4j, Amazon Redshift, DynamoDB
Infrastructure: AWS (S3, EC2, Route 53, SES), Docker, Kubernetes, Apache Kafka, RabbitMQ
Other: Virtual Threads, Reactive Programming, Keycloak, CI/CD, Git

PROFESSIONAL EXPERIENCE

MoveInSync

Software Engineer 2

Bengaluru, Karnataka

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

Bachelor of Technology in Computer Science

GPA: 7.77/10.0

Jalandhar, Punjab

August 2018 – July 2022

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