JIGISA RATHOD

Associate Software Engineer – Backend

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🔗 LinkedIn|

Backend-focused software engineer with 2.5 years of experience in Java (8/17), Spring Boot, Micronaut, and REST API development. Proven expertise in migrating legacy systems, optimizing performance by 30%, and integrating Cassandra, SQL, and Firebase for scalable, real-time applications. Skilled in secure authentication, microservices architecture, and performance testing with JMeter

WORK EXPERIENCE

ASSOCIATE SOFTWARE ENGINEER   **SRKAY Consulting Group Pvt. Ltd**.

May 2023 – Present

- Upgraded Java applications from Java 1.8 to Java 17, ensuring compatibility and performance improvements.
- Migrated projects from Java to Micronaut, optimizing for microservices architecture.
- Developed REST APIs using Spring Boot, integrating with Cassandra and SQL databases
- Implemented Hibernate with Cassandra and SQL, improving database interactions and query performance.
- Integrated Microsoft Authentication Library (MSAL) for secure authentication and authorization.
- Built a robust notification service for real-time updates using WebSocket, Socket.IO, and Firebase.
- Worked with Thymeleaf for dynamic UI rendering in Java- based web applications.
- Basic experience with C, C++, HTML, and Angular

KEY PROJECTS

CSS Module – Java Upgrade, Real-Time Notifications & Optimization   May 2023 – Dec 2023

- Migrated the Spring Boot application to Micronaut using reactive programming, improving startup time and scalability.
- Migrated from Java 8 to Java 17, updating all services and achieving ~30% performance improvement.
- Implemented WebSocket with Firebase for real-time notifications; explored multiple connection libraries for reliability.
- Developed APIs and optimized services for better scalability and response time.
- Tech Stack: Java 17, Spring Boot → Micronaut (Reactive), Firebase, WebSocket, Hibernate, SQL.

TRP Project – R&D Development & Database Exploration   Jan 2024 – Jun 2024

- Migrated Spring Boot applications to Micronaut with reactive programming to enhance performance and scalability.
- Researched and integrated Cassandra DB with Spring Boot, performing load testing using Locust (and JMeter) to ensure robustness.
- Explored and validated new database structures for optimized queries.
- Tech Stack: Spring Boot → Micronaut (Reactive), Cassandra DB, Locust, JMeter, REST APIs.

AMS Project – API Development, Integration & Dynamic Reporting   Jul 2024 – Present

- Integrated existing web applications into the AMS web platform, ensuring seamless backend support.
- Developed multiple backend services and APIs to support UI functionality.
- Created dynamic reports with auto-height/width adjustments and automatic export to PDF, CSV, and Excel using JasperReports.
- Migrated APIs from Spring Boot to Micronaut for improved startup time and reactive microservices support.
- Tech Stack: Micronaut, Spring Boot, JasperReports, REST APIs, SQL.

TECHNICAL SKILLS

- Programming Languages: Java 8/17, C, C++, HTML
- Frameworks & Libraries: Spring Boot, Micronaut (Reactive), Hibernate, Thymeleaf, WebSocket, Socket.IO
- Databases: Cassandra, MySQL, SQL
- Authentication & Security: Microsoft Authentication Library (MSAL)
- Performance & Testing Tools: Locust, JMeter
- Reporting & Visualization: JasperReports
- Others / Backend Tools: REST APIs, Firebase, PHP, MariaDB, XAMPP
- Version Control & Build Tools (optional): Git, Maven, Gradlelipse

EDUCATION

Master of Computer Applications   **Bachelor of Computer Applications**

Gujarat Technological University — Mar 2023   Gujarat Technological University — Jan 2021

CERTIFICATIONS

- WINNER IN INTER COLLEGE IT EVENTS (COC, E- HUNT, GOOGLER, WEB CRAWLER) (02/2020)
- GOOGLE TAG MANAGER FUNDAMENTALS (10/2020) GOOGLE ANALYTICS FOR POWER USERS (10/2020)
- GETTING STARTED WITH GOOGLE ANALYTICS 360 (10/2020) ADVANCED GOOGLE ANALYTICS (10/2020)
- INTRODUCTION TO DATA STUDIO (10/2020)