

Mohammad Rehan

Software Engineer

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Noida Sector 44

PROFESSIONAL SUMMARY

A highly skilled Software Engineer with 3+ years of experience developing scalable Java-based applications. Expert in Spring Boot, Microservices, REST APIs. Passionate about performance optimisation, clean code architecture, and solving complex system challenges. Recognised for reducing API response times by 30% and improving system efficiency across multiple projects. Looking for opportunities to contribute expertise in backend development, distributed systems, and cloud-based applications.

KEY COMPETENCIES

- Programming Languages:** Java, Java 8, Java 17, Object-Oriented Programming (OOP), Functional Programming.
- Frameworks & Libraries:** Spring Boot, Spring MVC, Spring Security, Hibernate/JPA, Spring Data.
- Tools & Technologies:** Docker, Apache Kafka, ElasticSearch, Redis, WebSockets Programming.
- Testing:** JUnit, Mockito.
- Database Management:** SQL (Programming Language), Postgres.
- Version Control:** Git, GitLab.
- Development Practices:** Microservices, Rest/Web API, Software Development.
- Agile Tools:** Jira.
- Other Skills:** Data Structures & algorithms

CAREER EXPERIENCE

Software Engineer – Samin Tekmindz India Pvt Ltd

July 2022 – Present

- As a Software engineer at Samin Tekmindz India Pvt Ltd, I am a key contributor to our dynamic and innovative software development team. My role is pivotal in crafting robust and efficient Java-based solutions that empower our clients to excel in their respective industries.

Project: ITS Golden Card Management System

Domain: Membership Management

Tech Stack: Java, Spring Boot, Microservices, PostgreSQL, Redis, Apache Kafka, AWS

Description:

Developed & optimized a comprehensive system for managing ITS Golden Cards, ensuring efficiency across the lifecycle of card issuance. The project includes data validation, bulk requests, printing processes, quality checks, and dispatch management, addressing the needs of Mumineen and Jamaat representatives.

Roles and Responsibilities:

- Developed & optimized scalable backend APIs, improving system reliability.
- Implemented Apache Kafka for asynchronous event handling & improved system response.
- Reduced API response times by 30% through optimized SQL queries and caching.
- Developed rigorous unit tests (JUnit, Mockito) ensuring 98%+ test coverage, and reducing production bugs.

Project: EV Roaming Platform (OCPI 2.1.1 Implementation)

Domain: Electric Vehicle (EV) Charging and Roaming

Tech Stack: Java, Spring Boot, Spring Security, Microservices, PostgreSQL, Redis, Elastic-Search, Kafka

Description:

Developed an EV Roaming Platform adhering to the Open Charge Point Interface (OCPI) 2.1.1 specifications, enabling seamless communication between Charge Point Operators (CPOs) and e-Mobility Service Providers (eMSPs). The platform facilitates the real-time exchange of charge point information, session management, smart charging commands, and charge detail records (CDRs).

Roles and Responsibilities:

- Designed and implemented RESTful APIs for seamless communication between CPOs and eMSPs.
- Utilized Kafka to handle asynchronous events and Redis to cache high-traffic data.
- Collaborated with stakeholders to define requirements and align implementation with business goals.
- Reduced API response time by 20% through optimized data handling.

Project: Advanced EV Charging Management System (OCPP 2.0.1 Implementation)

Domain: Electric Vehicle (EV) Charging Infrastructure

Technical Stack: Java, Spring Boot, SQL, AWS, Microservices, Web-Socket Programming, Apache Kafka

Description:

Developed an advanced EV Charging Management System implementing the Open Charge Point Protocol (OCPP) 2.0.1. This project supports enhanced functionalities for modern EV infrastructure, including advanced smart charging, firmware updates, real-time diagnostics, and session management, ensuring seamless communication between Charge Points and a Central System.

Roles and Responsibilities:

- Developed backend APIs to handle critical OCPP 2.0.1 operations, including Remote Start/Stop, Smart Charging Profiles, and Firmware Updates.
- Reduced operational downtime by 40% through proactive diagnostics and fault-handling mechanisms.
- Achieved full compliance with OCPP 2.0.1 standards, enabling seamless interoperability with multiple vendors and charge points.

Project: AssetWorks

Domain: Electric Vehicle (EV) Charging Infrastructure

Technical Stack: Java, Spring Boot, SQL, AWS, Microservices, Web-Socket Programming, Apache Kafka

Description:

Developed an EV Charging Management System using OCPP 1.6, enabling real-time communication between Charge Points and the Central System. Supported key functionalities such as session management, firmware updates, reservations, and diagnostics to ensure efficient and reliable EV operations.

Roles and Responsibilities:

- Implemented WebSocket-based communication protocols to enable real-time, bidirectional data transfer between charge points and the central system.
- Developed backend APIs for session management, diagnostics, and reporting, ensuring OCPP 1.6 compliance.
- Utilized Kafka for asynchronous event processing, ensuring scalability and high throughput.

Software Engineer Trainee – Samin Tekmindz India Pvt Ltd

Feb 2022 – July 2022

Key Achievements:

- Developed critical software modules, reducing system downtime by 40%.
- Received the **Spot Recognition Award from the CEO** for outstanding performance and exceptional coding skills during my tenure as a trainee.

EDUCATION

Bachelor of Technology (B.Tech) – Computer Science

Dr. A.P.J. Abdul Kalam Technical University (AKTU), Lucknow (2018 – 2022, CGPA: 7.64)

Higher Secondary (XII) – PCM

Holy Faith Inter College, Bareilly (2015 – 2016, 72%)
