

Mazidul Islam

Software Engineer

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Summary

Software Engineer with 3+ years of experience building scalable backend systems using Java, Spring Boot, and distributed technologies. Experienced in designing data-intensive applications, large-scale processing workflows, and AI-driven automation solutions. Focused on performance optimization, production reliability, and clean architecture.

Technical Skills

Languages: Java, Kotlin, Python, Scala, JavaScript

Frameworks & Architecture: Spring Boot, Spring AI, Hibernate, Microservices, RESTful APIs, gRPC, JUnit

Databases & Infrastructure: PostgreSQL, MySQL, Elasticsearch, RabbitMQ, Apache Spark, Docker, AWS, Git

Work Experience

Development Engineer | Prospecta Software Pvt. Ltd.

Feb 2023 – Present

- Built a Python-based load-sheet transformation service using Pandas to process **33K+** SAP Fiori Excel records into automated MDO create/update/delete actions, reducing manual processing **from days** to a **single** upload cycle.
- Played a key role in developing KAI, an **AI-powered** capability enabling natural language creation, update, and deletion of Master Data by interpreting intent, mapping datasets and fields, resolving ambiguities, validating business rules, and generating accurate change requests **saving hours** of manual form entry.
- Expanded User Defined Rule functionality to support advanced configurations, enabling **~60%** of custom rules to be built without code and driving significant client usage.
- Developed a Task Analytics dashboard using **Elasticsearch** aggregations to visualize key performance metrics, enabling teams to make **data-driven decisions**.
- Designed a Hierarchy View feature with recursive **SQL queries (CTEs)** to simplify navigation of complex data relationships, improving query speed by **90%** over legacy implementations.
- Created a secure Long-Lived Token authentication system during a **4-day hackathon**, enabling seamless API integration for external partners with automated expiry detection and proactive notification to prevent service disruption.
- Built a data profiling tool using **Apache Spark** to analyze large datasets, identifying duplicates, missing values, and inconsistencies with **99% accuracy**.
- Led development** of a 360° View Dashboard using nested Elasticsearch structures, providing a unified interface for monitoring data quality and operational metrics, with integrated changelog tracking and record update capabilities.
- Engineered an **Adapter Microservice** for real-time integration with platforms like SAP/CPI, ensuring data consistency through automatic validation checks & transformation logic.

Achievements

Internet Speed Meter

An Android application that helps users monitor their internet speed and usage in real-time. It provides a visual representation of data usage through a chart and tracks app usage while securely storing data for up to 30 days.

Highlight: Over **500k installs** on Google Play Store.

Projects

Zip Connect

- Built a procedural puzzle game with pathfinding and a easy level editor, enabling players to create and share custom levels.
- Implemented Firebase Auth and Firestore-backed leaderboards with real-time stats & levels for community engagement.

Tech stacks: React, Vite, Tailwind, Firebase

JWT Spring Security

- Built a Spring Boot application with JWT-based authentication and role-based authorization using Spring Security.
- Secured RESTful APIs by ensuring only authenticated users with the right permissions could access specific resources.
- Created a scalable and reliable foundation for managing user access and protecting sensitive data.

Tech stacks: Java, Spring Boot, Spring Security, and PostgreSQL

Education And Training

Bachelor of Computer Applications (In Progress) | Manipal University Jaipur

Feb 2024 – Feb 2027

Java Backend Development | Masai School, Bangaluru

June 2022 – Jan 2023