Suraj Sahu

Software Engineer
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Summary

Software Engineer with 3+ years of experience designing and optimizing backend systems and large-scale data pipelines. Skilled in building high-performance solutions for AI-Driven Network Performance Analytics, transforming real-time data into meaningful insights to improve reliability and decision-making. Passionate about problem-solving, automation, and delivering scalable solutions.

Technical Skills

Programming & Data: Java, Spring Boot, REST APIs, Microservices, JUnit, Apache Spark, HDFS, SQL, NoSQL, Elasticsearch, HTML, CSS, JSON

Tools & Platforms: Git, Maven, Postman, Eclipse, Linux, Kibana, Distributed Systems

Experience

Software Engineer July 2022 – Present

Jio Platforms Ltd., Bangalore, India

- Developed and optimized **Java microservices** for REST APIs, distributed processing, and automated AI model scheduling, reducing response time by **30%**.
- Designed and managed **50+ RESTful APIs**, handling **100K+ HTTP requests/day** with minimal latency.
- Leveraged **Apache Spark** for high-performance data processing, reducing computational time by **60%**.
- Worked extensively with **Elasticsearch and Kibana** for scalable storage, logging, and real-time analytics, improving query performance by **50%** and processing **1M+ records daily**.
- Built a **rule-based execution engine** with automated triggers (email, SMS, API calls, ticket creation), enhancing system automation and reliability.
- Optimized **large-scale data workflows and code execution** using multithreading, parallel processing, and batch execution, improving overall system performance by **50%**.
- Conducted **unit and regression testing**, ensuring **99.9% system uptime** and minimizing production issues.
- Used tools such as **WinSCP, MobaXterm, Linux, and Kibana** for deployment, monitoring, and logging.

Project: AI-Driven Network Performance Analytics

- Built backend systems that collect and process large amounts of real-time network data.
- Created logic to calculate key performance indicators (KPIs) and store results for fast reports and dashboards.
- Added features like trend analysis, forecasting, and anomaly detection to help teams understand and improve network performance.
- Improved automation and made the system faster and easier to maintain.

Education

Vivekanand Education Society's Institute of Technology Mumbai University

Electronics and Telecommunication Engineering **July 2018 – June 2022**

CGPA: 8.19/10

Projects

Journal Management API Jan 2025 – Feb 2025

- Developed backend API using Spring Boot and Spring Data MongoDB for managing journal entries with CRUD operations and repository abstraction.
- Secured endpoints with Basic Auth and JWT; integrated external APIs (Weather API) and email notifications.
- Implemented Redis caching, Actuator monitoring, and structured logging using Logback for performance and observability.
- Conducted unit and integration testing with JUnit and Mockito; ensured code quality with SonarQube.
- Documented APIs using Swagger/OpenAPI 3.0; streamlined development using Lombok, Maven, and Git.
- **GitHub:** github.com/soorajsahun/SpringBoot_JournalApp

Interests

Problem-solving | Fitness (Gym & Running) | Travel | Video Editing