Suraj Sahu

Software Engineer

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SUMMARY

Software Engineer with 3+ years of experience in building scalable REST APIs, microservices, and distributed systems using Spring Boot, Apache Spark, and Elasticsearch. Passionate about problem-solving and automation, seeking challenging roles in backend development or big data engineering.

TECHNICAL SKILLS

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

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

EXPERIENCE

Software Engineer July 2022 – Present
Jio Platforms Ltd., Mumbai, 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.

Key Project: Jio Brain – Training as a Service (Microservices Suite)

- Developed **Jio Brain**, an AI/ML platform for anomaly detection, forecasting, and generative AI on network and operations data, delivering predictive insights and improving network performance.
- Contributed to a **suite of services** including a Java service, Python service, Data Aggregation and Federation Engine (DAFE), and AI Decision Hub, enabling large-scale ML workflows.
- Built backend microservices for **data ingestion, preprocessing, and model execution**, integrating **Elasticsearch** for metadata management, retraining, and fast data retrieval.
- Designed and implemented **rule-based automation** and optimized API performance using multithreading, enabling scalable and efficient ML pipelines.

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 | *Spring Boot, MongoDB* Jan 2025 – Feb 2025

- Designed and implemented a RESTful backend API for journal entry management using Spring Boot and MongoDB.
- Built full CRUD operations following REST principles and secured endpoints using Spring Security.
- Documented APIs using Swagger/OpenAPI 3.0 and tested extensively using Postman.
- Implemented Logback for structured HTTP request/response logging.
- Developed locally using Eclipse and Maven; used Git for version control.
- **GitHub:** github.com/soorajsahun/SpringBoot_JournalApp

INTERESTS

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