

Rajneesh Sahai

Software Engineer - II

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Skills

Programming Languages/Scripting Languages: Java, JavaScript

Framework/Library: Dagger2, Spring, Angular, Bucket4j

Tools: Docker, Kubernetes, Helm, Maven, LiquiBase, Apache Tomcat, Apache Solr, Git, GitHub, Gradle, Flyway

Database: YugabyteDB, SQL Server, RDBMS, Apache Solr, NoSQL

Queues: Kafka, ActiveMQ, IBM MQ

Technical Skills: Data Structure and Algorithm, Software Design, Design Patterns

Work Experience

Backend Software Engineer - II, *New Relic*, Hyderabad, India, July 2024 – Present

Technologies: Yugabyte, Java, Dagger2, Kafka, Gradle, Flyway

- Engineered and tuned Yugabyte database clusters by optimizing RocksDB configurations to handle high-volume write/read loads, ensuring **production readiness**.
- Developed a proactive monitoring application to track real-time cluster availability and performance metrics, including **P99/P95 latencies and slow query identification**, to ensure database health.
- Designed and implemented a Forward Sync service using Kafka to migrate data from a legacy datastore, incorporating **rate-limiting to manage transaction flow and prevent system overload**.
- Created a load generator simulator to precisely evaluate database capacity and performance under heavy traffic, aiding in **resource scaling and resilience planning**.
- Spearheaded production readiness** by creating GA checklists, risk matrices, and runbooks to establish clear procedures for proactive monitoring.
- Enhanced system reliability and disaster recovery by fixing the Yugabyte backup-and-restore process and developing automated scripts for log cleanup, **preventing critical downtime incidents**.
- Contributed to a **cost of goods sold (COGS) reduction initiative** by migrating clusters to a custom database pool, ensuring consistent node performance and optimizing resource utilization.

Software Engineer - II, *NCR Corporation*, Hyderabad, India, June 2021 – July 2024

Technologies: Java, Spring Boot, Spring MVC, Spring Security, Spring Data JPA, Hibernate, Angular

Project: Vision - ATM Monitoring application

- Designed and implemented a critical feature using Spring Boot facilitating customer setup, ensuring seamless command communication between ATMs and the application through IBM MQ, **increasing data transfer efficiency by at least 20%**.
- Solved **50+ customer issues** for Electronic Journal Module with a commitment to excellence, ensuring seamless functionality and client satisfaction.
- Enhanced the processing efficiency of large or faulty messages from ATMs **by a minimum of 10%**, this improvement was achieved through modifications to the Apache Solr processing document script.
- Engineered a dynamic incident filtering feature (Spring, Angular) that significantly **enhanced user experience, search speed, and accuracy**.
- Implemented REST APIs with seamless DB switching for a multi-tenant environment, **improving data accessibility and scalability** for external customers.

Education

B.Tech: Computer Science and Engineering

National Institute of Technology, Calicut, 2017 – 2021

Intermediate

Indra Prasth Academy, Babina, 2016

Activities

Event Manager

Rubik's Cube Open Contest - Tathva 2019, National Institute of Technology