

# Rajneesh Sahai

Software Engineer - II | *Personal Portfolio*

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## Skills

**Programming Languages:** Java, Kotlin

**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:* YugabyteDB, Java, Kotlin, 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 synchronization 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 assess database capacity and performance in heavy traffic, helping 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 that facilitates customer setup, ensuring seamless command communication between ATMs and the application through IBM MQ, **increasing the efficiency of data transfer by at least 20%**.
- Solved **50+ customer issues** for the Electronic Journal Module with a commitment to excellence, ensuring seamless functionality and client satisfaction.
- Enhanced the processing efficiency of large or faulty ATM messages **by a minimum of 10%**, this improvement was achieved through modifications to the Apache Solr processing document script.
- Designed 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