

SENIOR SOFTWARE ENGINEER

RAJEEV KUSHWAHA

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PROFESSIONAL SUMMARY

Senior Software Engineer with 8+ years of experience designing and developing scalable, cloud-native applications across Financial Services, Retail, and Healthcare domains. Strong expertise in Java, Spring Boot, Kafka, AWS, Microservices, Oracle, and distributed systems. Proven success in building event-driven architectures, optimizing high-volume transaction processing platforms, implementing cloud migration strategies, and delivering highly available enterprise applications. Experienced in performance tuning, CI/CD automation, database optimization, and real-time messaging systems processing millions of transactions.

TECHNICAL SKILLS

Programming Languages: Java 8/11/17, SQL, PL/SQL, JavaScript, TypeScript

Frameworks: Spring Boot, Spring MVC, Spring Cloud, Spring Security, Spring Data JPA, Hibernate, JPA

Messaging & Streaming: Apache Kafka, Kafka Streams, Kafka Connect, Avro, Schema Registry

Cloud & DevOps: AWS (EC2, Lambda, S3, RDS, Glue, Athena, Redshift, CloudWatch, IAM, Secrets Manager) Docker, Kubernetes, Jenkins, Terraform, CloudFormation

Databases: Oracle, PostgreSQL, MongoDB, Redis, Cassandra, DynamoDB, SQL Server

Frontend: Angular, React.js, TypeScript

Monitoring Tools: Splunk, ELK Stack, Prometheus, Grafana, Dynatrace

Methodologies: Agile, Scrum, TDD, CI/CD

PROFESSIONAL EXPERIENCE

Synchrony Financial | Charlotte, NC

Senior Software Engineer

Sept 2023 – Present

Project: Real-Time Financial Transaction Processing Platform

Responsibilities

- Designed and developed event-driven microservices using Spring Boot and Kafka to process millions of financial transactions in real time.
- Architected Kafka consumer backpressure handling using pause-resume strategies, preventing application failures during peak transaction loads.
- Migrated legacy batch processing systems to AWS Lambda and S3 architecture, reducing processing time from 35 minutes to 6 minutes.
- Owned the end-to-end delivery of high-volume financial transaction services from requirements gathering, solution design, development, testing, deployment, and production support working closely with architects, product owners, QA, and operations teams to ensure reliable releases.
- Integrated AWS Secrets Manager to eliminate hardcoded credentials and improve security compliance.
- Developed Kafka Producers, Consumers, and Kafka Streams applications using Avro schemas and Confluent Schema Registry.

- ✚ Built secure high-volume messaging solutions supporting encryption, masking, audit logging, and monitoring capabilities.
- ✚ Designed RESTful APIs to retrieve and process MongoDB documents for enterprise reporting systems.
- ✚ Optimized Oracle SQL and PL/SQL queries to improve transaction processing performance and reporting efficiency.
- ✚ Implemented Redis caching strategies to reduce database load and improve response times.
- ✚ Automated CI/CD pipelines using Jenkins, Docker, ECS, and Kubernetes.
- ✚ Developed observability dashboards using Prometheus, Grafana, ELK, and Splunk for proactive monitoring and issue resolution.

DXC Technology | Plano, TX

Senior Software Engineer

Nov 2021 – Aug 2023

Project: Healthcare Claims Processing & Data Reconciliation Platform

Responsibilities

- ✚ Developed scalable microservices architecture using Spring Boot and Kafka for healthcare claims processing systems.
- ✚ Built enterprise reconciliation tools comparing millions of records between Kafka streams and Oracle databases to ensure data accuracy.
- ✚ Led end-to-end ownership of healthcare claims processing services, collaborating with business stakeholders, QA teams, database engineers, and cloud engineers to deliver scalable solutions from design through production deployment and ongoing support.
- ✚ Developed Angular-based support portals allowing operations teams to inspect DLQ messages and trigger automated retries.
- ✚ Diagnosed and optimized Oracle database bottlenecks using EXPLAIN plans, indexing strategies, and PL/SQL tuning.
- ✚ Reduced query execution times from minutes to seconds through performance optimization initiatives.
- ✚ Implemented AWS Lambda services for validation, reconciliation, and enterprise data extraction workflows.
- ✚ Designed and deployed containerized applications using Kubernetes and Docker.
- ✚ Developed batch processing solutions using Spring Batch and Quartz Scheduler.
- ✚ Built RESTful and SOAP services supporting healthcare integrations across multiple enterprise systems.
- ✚ Automated CI/CD pipelines using Jenkins, Maven, Gradle, and Docker.
- ✚ Implemented monitoring and alerting solutions to ensure high application availability and operational excellence.

Software Engineer

Target Corporation | Minneapolis, MN

Dec 2018 – Oct 2021

Project: Retail Transaction & Order Management Platform

Responsibilities

- ✚ Developed and maintained microservices supporting retail transaction processing and customer account management systems.
- ✚ Designed Kafka-based event processing architectures ensuring reliable and scalable communication between distributed services.
- ✚ Took end-to-end ownership of retail order processing and transaction services, delivering features from requirement analysis and solution design through implementation, testing, deployment, monitoring, and production support.
- ✚ Implemented strict Kafka partitioning strategies to maintain transaction ordering and consistency.

- ✚ Developed custom Dead Letter Queue frameworks enabling automated isolation and recovery of failed messages.
- ✚ Built RESTful APIs facilitating integration with payment gateways and third-party enterprise systems.
- ✚ Developed React dashboards delivering real-time transaction analytics and operational insights.
- ✚ Leveraged Angular and NgRx Store for complex state management and enterprise-grade frontend applications.
- ✚ Implemented Redis caching strategies to improve application performance and reduce database dependency.
- ✚ Built serverless AWS Lambda workflows supporting automated financial processing and notifications.
- ✚ Designed data access layers using MongoDB, DynamoDB, PostgreSQL, and MySQL.
- ✚ Developed CI/CD pipelines using Jenkins, Maven, Docker, and Git.
- ✚ Improved system scalability and availability through cloud-native architecture implementations.

Software Engineer

Morningstar | Chicago, IL

May 2017 – Nov 2018

Project: Real-Time Market Data Processing Platform

Responsibilities

- ✚ Developed real-time market data ingestion services capable of processing high-frequency financial data feeds.
- ✚ Implemented multithreaded processing models to improve throughput and reduce latency.
- ✚ Collaborated with cross-functional engineering and infrastructure teams to deliver resilient market data platforms while ensuring production stability, system scalability, and continuous operational improvements.
- ✚ Designed resilient application recovery mechanisms using JUnit and Mockito-based fault injection testing.
- ✚ Built Redis-backed caching services to improve response times and reduce database load.
- ✚ Developed RESTful APIs and backend services using Java and Node.js.
- ✚ Managed AWS infrastructure including API Gateway, S3, IAM, CloudWatch, SNS, SQS, and SES.
- ✚ Implemented secure storage and archival solutions using S3, Glacier, and EFS.
- ✚ Developed SQL Server stored procedures, reports, and business intelligence solutions using SSRS and SSAS.
- ✚ Configured monitoring and alerting systems to support production operations and performance management.

EDUCATION

- ✚ Bachelor of Technology in Computer Science
- ✚ Southeastern Oklahoma State University

CERTIFICATION

- ✚ AWS Certified Solutions Architect – Associate
- ✚ AWS Certified GenAI developer- Professional