

# Rahul Tripathi

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## SUMMARY

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Backend Engineer with 4.7+ years of experience designing and scaling distributed systems for high-throughput, low-latency applications. Expertise in Java, Kotlin, Spring Boot, Microservices, Kafka, and NoSQL/SQL databases. Strong focus on system design, performance optimization, observability, and event-driven architectures.

## EXPERIENCE

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### Senior Software Engineer

KPMG (Lowes's India)

June 2024 – Present

Bangalore, India

- Engineering marketplace backend systems powering **multi-seller workflows**, built with Java/Kotlin, Spring Boot, Kafka, and MongoDB.
- Designed and implemented a **high-throughput event-driven architecture** using Kafka to stream real-time pricing, inventory, and seller updates, supporting millions of events/day with horizontal scalability and fault tolerance.
- Built a **Buy Box Ranking Engine** to compute dynamic seller scores and ranking decisions on PDP, reducing ranking latency and improving accuracy under high load.
- Enabled platform monetization by integrating **policy-controlled sponsored ranking boosts**, improving vendor visibility, and contributing to significant incremental revenue while maintaining customer-first ranking fairness.
- Integrated upstream and downstream APIs to fetch, normalize, and process **large-scale catalog data**, ensuring end-to-end data consistency, faster ingestion, and reliable synchronization across marketplace services.
- Improved system reliability by automating pipelines with **Apache Airflow DAGs**, reducing manual intervention and improving operational efficiency.
- Enhanced platform observability by building end-to-end dashboards in **Prometheus + Grafana** for latency, throughput, error rates, and consumer lag.

### Software Engineering Analyst

Accenture

April 2021 – June 2024

Gurugram, India

- Developed backend services using Java, Spring Boot, and SQL, supporting financial and regulatory processing pipelines.
- Optimized SQL queries, indexes, and stored procedures, reducing query execution times by **up to 40%** and improving batch throughput.
- Enhanced and re-engineered batch processing systems, improving SLA adherence and reducing latency for high-volume jobs.
- Led components of the **SQL Server migration (2012 → 2017)**, ensuring backward compatible data models, robust failover strategy, and smooth rollout.

## TECHNICAL SKILLS

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**Backend:** Java, Kotlin, Spring Boot, WebFlux, Microservices, Kafka

**Databases:** MongoDB, SQL Server, PostgreSQL, MySQL, NoSQL

**Orchestration & Workflow:** Apache Airflow, Autosys

**DevOps & Tools:** Git, Maven, Gradle, TeamCity, Bitbucket, GitHub

**Observability:** Prometheus, Grafana, Logging & Metrics Dashboards

**IDE & Collaboration:** IntelliJ IDEA, VS Code, Postman, JIRA, Confluence

**Domains:** Marketplace Systems, Retail, Capital Markets, Investment Banking

## EDUCATION

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S.P. Memorial Institute of Technology (AKTU)

B.Tech in Computer Science & Engineering

2016 – 2020