

RAMESH KUMAR

Senior Backend & Data Engineer | Java, Data Platforms & Cloud Modernization

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SUMMARY

Senior backend and data engineer with nearly 10 years of experience building Java and Spring Boot services, enterprise integrations, and data migration solutions. Experienced in modernizing data-intensive applications for Azure Kubernetes Service (AKS) and developing Java-orchestrated Spark and Databricks workflows to migrate Apache Iceberg datasets from HDFS to Unity Catalog-managed Delta Lake tables.

SKILLS

Backend & APIs: Java 8/17/21, Spring Boot, Spring Data, Spring Security, Hibernate, Microservices, REST APIs, SQL, OAuth2/OIDC, JWT

Cloud & DevOps: Azure (AKS, ADLS Gen2, Managed Identity), AWS (EC2, S3, RDS, Lambda), Docker, Kubernetes, Helm

Data Engineering: Apache Kafka, Apache Spark, Apache Iceberg, HDFS, Delta Lake, Databricks Jobs, Databricks Asset Bundles (DABs), Unity Catalog, Dremio, Data Migration & Transformation

Databases: Oracle, Microsoft SQL Server, PostgreSQL

Tools & Observability: Git, Maven, Postman, Swagger/OpenAPI, Datadog, OpenTelemetry, JUnit, Jira, Confluence, Agile/Scrum

EXPERIENCE

Data Engineer, TD Securities (Endava) – Toronto, Canada Oct 2024 – present

- Optimized core data handling workflows by removing transactional bottlenecks and implementing high-throughput batch inserts, reducing file-upload processing time from 20 minutes to under 2 minutes.
- Designed and developed a configuration-driven API Source Loader framework that abstracted ingestion complexity and reduced new data-feed onboarding time from weeks to days.
- Instrumented Spring Boot services with OpenTelemetry to expose application and performance metrics for collection and monitoring in Datadog.
- Modernized data-intensive monolithic applications for AKS by separating deployable modules, containerizing Spring Boot services, and creating Dockerfiles and Helm charts for repeatable deployments.
- Developed Java and Spring Boot POCs to create and trigger Spark-based migrations of Apache Iceberg datasets from HDFS to Unity Catalog-managed Delta Lake tables, packaging and deploying workloads with Databricks Jobs and Asset Bundles.

Software Developer, Amdocs Canada (Zenith SS) – Toronto, Canada Jan 2022 – Mar 2024

- Engineered concurrent Java data pipelines using Google Pub/Sub to process debit and surcharge events with low latency and improved scalability.
- Designed and deployed scalable Spring Boot microservices on AWS using EC2, S3, RDS, and Lambda.
- Built a Spring Boot-based Automatic Recovery Tool (ART) to detect and remediate data inconsistencies, generate actionable reports, and reduce operational overhead by 25%.
- Designed and developed a high-volume bulk charge and tax loading capability, reducing billing processing time by 20% and increasing operational throughput.

Senior Applications Engineer, Avaya (BETSOL) – Pune, India Sept 2021 – Jan 2022

- Delivered a centralized Contract Portal that enabled support analysts to validate budgets, contract terms, expiry dates, and product coverage without consulting multiple systems, reducing investigation time.

- Senior Applications Engineer**, Oracle India Private Limited, IDC – Hyderabad, India Mar 2021 – Sept 2021
- Automated high-volume transaction reconciliation workflows, eliminating redundant manual validation and reducing end-user effort by 50%.
 - Diagnosed and resolved SQL performance bottlenecks across enterprise applications, reporting systems, and executive dashboards.

- Software Developer**, Amdocs Development Centre India LLP – Pune, India Aug 2016 – Feb 2021
- Engineered a rollback-enabled Next.js tool for updating compressed and serialized CLOB database columns, reducing manual engineering effort by 60%.
 - Designed and implemented JWT-based authentication and authorization to secure sensitive internal tooling operations.
 - Developed secure REST APIs to support reliable communication between backend services and frontend applications.

INFRASTRUCTURE AND PERSONAL PROJECTS

- Home Lab Platform** 2021 – present
- Proxmox VE, Unraid, Docker, Kubernetes, Nginx, Networking, TLS/SSL
- Design and operate a self-hosted platform using Proxmox, Unraid, Docker, and Kubernetes, with redundant storage, network segmentation, reverse-proxy routing, secure external access, and automated TLS certificate management.

EDUCATION

- National Institute of Technology**, M.Tech in Computer Science – Rourkela, India June 2014 – June 2016
- Uttar Pradesh Technical University**, B.Tech in Computer Science & Engineering – Lucknow, India Sept 2009 – June 2013