

DINESH RAJENDRAN

Chennai, Tamil Nadu, India

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Summary

Senior Backend Engineer with **7+ years** of experience building scalable distributed systems using **Java, Spring Boot, AWS, and GCP**. Specializing in designing resilient **microservices** and high-throughput data pipelines that solve real business problems, like cutting infrastructure costs and automating manual workflows. Proven ability to drive technical roadmaps from **system design (HLD/LLD)** through to **production deployment**. Passionate about owning the **architecture**, improving system observability, and **mentoring** teams to write cleaner, efficient code.

Skills

Languages: Java, TypeScript, JavaScript, SQL
Frameworks & Tools: Spring Boot, Microservices Architecture, WebSockets
Databases: PostgreSQL, MySQL, Redis, BigQuery
Cloud / Infra: AWS, GCP, Terraform, Facets, Docker, Kubernetes
Focus Areas: Distributed Systems, System Design, Observability, Performance Tuning

Experience

Software Development Engineer 2 - CommerceIQ Apr 2023 – Present
Chennai, India

Tech: Java , SpringBoot, AWS (Lambda, S3, ECR, Step Functions, SQS), GCP (BigQuery, Pub/Sub), Apache Spark, Databricks, Redis, Docker, Jenkins

- Orchestrated a **Spring Boot microservice** that orchestrates **event-driven background workflows** across distributed instances, with automated retries, audit tracking, and on-call alerting.
- Redesigned high-throughput data pipelines using **Apache Spark and AWS Step Functions**, implementing parallel execution patterns to eliminate processing bottlenecks and enhance system observability.
- Architected an **automated data-ingestion engine** to replace expensive third-party integrations, optimizing crawling logic to successfully reduce infrastructure costs by over **\$145K annually**.
- Engineered a **centralized RESTful API** to replace manual configuration workflows, fully **automating integration pipelines** and significantly accelerating client go-live times.
- Resolved critical production **out-of-memory (OOM) failures** and API latency by **optimizing complex SQL queries** and memory footprints, stabilizing response times across **strict P75-P99 percentiles** for high-volume content endpoints, while building centralized telemetry dashboards for real-time incident monitoring.
- Architected weekly **data extraction pipelines** to aggregate distributed datasets, processing an average of **350M+ rows per week**, significantly improving data coverage and ensuring data integrity to support **enterprise contract renewals**.
- Partnered with engineering leadership to define **long-term architectural roadmaps**, while **mentoring junior engineers** through complex system integrations to accelerate feature delivery.

Member Technical Staff - ManageEngine (Zoho Corp) May 2019 – Apr 2023
Chennai, India

Tech: Java, JavaScript, JSP, Node.js, Express, MSSQL, pgSQL, REST APIs, Jenkins, OAuth 2.0

- Spearheaded the development of **cross-platform password synchronization** engines to automate complex security workflows, ensuring **credential consistency** across highly integrated enterprise systems.
- Optimized** backend metric ingestion for high-volume datasets, reducing processing latency and delivering **real-time operational dashboards** for system-wide visibility.
- Scaled** legacy LDAP authentication to a **multi-tenant architecture**, resolving critical login failures and enabling the platform to support isolated enterprise-scale environments.
- Modernized legacy Helpdesk user interface; Introduced **OAuth flows and granular permissioning** for secure, scoped access, and improving user adoption.
- Engineered** a library of reusable UI modules and a **highly customizable SQL reporting engine**, accelerating feature delivery cycles by reducing redundant development effort.
- Directed cross-functional **HLD/LLD design** reviews and mentored junior engineers, establishing rigorous standards for **clean code** and architectural integrity.

Education

Sri Krishna College of Engineering and Technology – B.Tech. in Information Technology