

# Mithesh A

 Mithesh14 |  Mithesh14 |  mithesharun@gmail.com |  +91 9150571404

## PROFESSIONAL SUMMARY

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Backend Software Engineer with 2.5+ years of experience at CommerceIQ, a retail analytics SaaS platform. Built and shipped production features across data pipelines, backend APIs, and infrastructure for enterprise clients including SharkNinja and Nestle Purina. Delivered **\$47,000+ in annual cost savings** and **50% pipeline performance improvement** across independent infrastructure initiatives.

## WORK EXPERIENCE

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### Software Development Engineer I, CommerceIQ

*June 2023 – Present*

*rBoomerang Retail Commerce Technologies India Pvt. Ltd.*

- Led end-to-end development of the **Recommendations Module** across **Omni Command Center (OCC)** and **Target Command Center (TCC)**: built **Spring Boot** recommendation APIs, designed Databricks data pipelines, and shipped Content Score, Paid/Organic Traffic, and Availability recommendation types to production for enterprise clients including SharkNinja, Nestle Purina, and Heyday.
- Integrated the **Recommendations Module** with the existing **RCA (Root Cause Analysis)** metrics layer for Target Command Center, implementing organic and paid traffic classification logic so users see actionable recommendations directly within root cause analysis views; shipped to production.
- Debugged and resolved **MySQL 8.0 compatibility issues** (JDBC driver, query cache) that were blocking a company-wide RDS upgrade; upgraded **20 AWS RDS instances** (MySQL Aurora and PostgreSQL) across Beta, QA, and Production, delivering **\$27,000+ in annual cost savings**.
- Wrote **Databricks PySpark UDFs** to optimize multi-retailer Databricks pipelines, improving pipeline performance by **50%**; separately configured **AWS S3 lifecycle policies** to reduce storage costs, saving **\$20,000 annually**.
- Root-caused a production data outage across multiple retailers to an incorrect upstream date value in a pipeline payload; debugged and fixed issues across Sales, Advertising, and Inventory workflows directly, restoring data integrity over a single weekend.
- Identified incorrect cache key granularity in a **Java Spring Boot** service causing cross-module cache collisions; redesigned the cache key strategy to scope by module and datasource context, replaced per-dimension DB fetching with a single bulk call, and deployed changes across two backend services to production.

### Full-Stack Developer Intern, ZOHO Corporation

*July 2022 – Aug 2022*

- Built a secure **Bank Management System** using the **MERN stack** for the ZOHO IAM team, implementing authentication flows and role-based access control.

## TECHNICAL SKILLS

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Languages	Java, Python, SQL
Backend & APIs	Spring Boot, Microservices
Data & Cloud	Databricks (PySpark, UDFs), AWS (S3, RDS, Aurora)
Databases	MySQL, PostgreSQL, Elasticsearch
Dev & Tooling	Git, Bitbucket Pipelines, PagerDuty, Linux
Core Concepts	Data Structures & Algorithms

## PROJECTS

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### OrgBot – Internal Hackathon Project

*CommerceIQ, June 2025*

- Built a **Python** automation platform to streamline developer onboarding and role management across **7 internal tools** (Slack, PagerDuty, Google Groups, Bitbucket, Jira, Confluence, HiBob), designed to replace a multi-step manual process with a single automated workflow.

### Intelligent Load Balancing in SDN

*IEEE ICACCS 2022*

- Implemented dynamic load-balancing algorithms (Round Robin, Weighted Round Robin, Least Connection) in **Software-Defined Networking**; validated throughput and latency improvements via **Mininet and POX controller** simulations.

## EDUCATION

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2019–2023 B.E. Computer Science, **Madras Institute of Technology**

(GPA: 8.94/10)