

Akhil Matta

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Professional Summary

Software engineer experienced in microservices, scalable APIs, concurrent systems and database optimization using Java, Spring Boot, PostgreSQL and MongoDB.

Education

Master of Engineering - Electrical and Computer Engineering **Present**
University of Ottawa, Canada
Bachelor of Technology - Computer Science & Engineering **May 2025**
MREC, India

Professional Experience

Associate Software Engineer, Accenture, India **July 2025 - December 2025**

- Built Spring Boot microservices for Swisscom ecommerce flows handling cart, order and promo APIs with PostgreSQL and MongoDB persistence.
- Optimized PostgreSQL queries and indexing for order history APIs, lowering average response latency from 1.8s to under 700ms.
- Added MongoDB aggregation pipelines for telecom sales analytics dashboards, improving reporting accuracy and query performance.
- Wrote JUnit and Mockito test suites for billing and checkout modules, increasing backend code coverage and deployment reliability.

Associate Software Engineer Intern, Accenture, India **January 2025 - June 2025**

- Fixed UI-reported backend bugs, validated API responses and assisted senior developers with testing and deployment verification.
- Collaborated with 15+ cross-functional teams in a 189-engineer ecosystem using Git, Jira, CI/CD pipelines and Agile delivery practices.

Software Engineer Intern, Bharat Heavy Electricals Limited, India **March 2024 - August 2024**

- Processed and analyzed sensor data from heavy equipment assembly systems using Python and SQL to identify operational anomalies and downtime trends.
- Built automated data pipelines and reporting scripts for equipment sensor logs, improving monitoring visibility for manufacturing teams

Projects

Asynchronous Audit Logging System - Spring Boot, MongoDB & PostgreSQL [\(link\)](#)

- Built an asynchronous backend system using Spring Boot and CompletableFuture to decouple audit logging from user-facing API workflows.
- Designed concurrent processing pipelines with custom ThreadPoolTaskExecutor configurations for scalable request handling and non-blocking execution.
- Engineered a dual-database architecture using MongoDB for operational data and PostgreSQL for structured audit logging and observability analytics.

Skills

Programming Languages: Java, Python, SQL, JavaScript

Backend & Frameworks: Spring Boot, Django, RESTful APIs, JUnit 5, Mockito, Maven, Spring Async, CompletableFuture

Databases & Storage: PostgreSQL, MongoDB, MySQL, SQLite, Relational Data Modeling, Query Optimization, MongoDB Aggregation Pipelines

Developer Tools & Libraries: Git, GitHub, JetBrains IDEs, Visual Studio IDE, Bootstrap

Core Engineering Areas: Microservices, Distributed Systems, Database Optimization, Concurrent Programming, Audit Logging Systems, Performance Profiling, Scalable Backend Architecture, Full-Stack Development, Agile SDLC