

Meharaj Thoufik A

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EXPERIENCE

Software Engineer

Jun 2024 - Nov 2025

LMNAs Cloud Solutions

Chennai, Tamil Nadu

- Shipped **CRM-to-SAP ERP order sync** that held **zero lost or duplicate orders** through ERP downtime, using a **transactional outbox** with a client reference re-checked in SAP before any retry.
- Built the reporting dashboard serving **40,000+ users**, then cut its **p95 latency 6x (3s → 500ms)** and database load **~95%** — per-metric **Redis** (NoSQL) caching served off a **PostgreSQL read replica**, with a distributed lock collapsing every concurrent re-computation on cache expiry into a single database read.
- Merged **4 inbound integrations** into a single customer record with **zero duplicates**, via an object-oriented **channel-adaptor layer** normalizing every provider payload, event-ID deduplication, and database unique constraints on email and phone.
- Enabled non-technical users to build **100+ line orders in minutes instead of days** through a reusable template system that re-resolves prices per customer at creation, so stale amounts are never carried forward.
- Integrated a **Python LLM scoring service** into the Java platform over a **versioned REST contract**, delivering **prioritized at-risk account alerts with zero repeat notifications**.
- Built **automated unit and integration test** coverage over the order-sync and deduplication paths (**JUnit 5, Mockito, Testcontainers**), catching regressions in **CI** before every release.

Stack: Java, Spring Boot, Spring Data JPA, Hibernate, Spring Security, PostgreSQL, Redis, Redisson, REST APIs, JUnit 5, Mockito, Testcontainers, Maven, Git, Python

PROJECTS

Slipstream | Real-Time E-Commerce Decisioning Engine | github.com/MeharajThoufik/slipstream

Aug 2026

- Built a real-time decisioning engine sustaining **41,000+ decisions/sec at 4 μs p99** on a single instance, holding rules in an **immutable in-memory snapshot** hot-swapped atomically so reads stay lock-free and allocation-free.
- Kept durability off the hot path by batching every decision to an **asynchronous write path**, then attributed revenue per variant against a **protected holdout with 95% confidence intervals**.
- Shipped as a dependency-free JavaScript snippet for drop-in integration; live at slipstream.meharaj.xyz.

TaskMesh | Fault-Tolerant Distributed Task Engine | github.com/MeharajThoufik/taskmesh

Jun 2026

- Built a distributed task engine for **real-time payment and order processing**, sustaining a measured **100k+ req/sec at 20 ms p99** across **3 worker nodes** coordinated through **Apache Kafka** and **Redis**.
- Kept delivery correct through worker failure with **at-least-once consumption** and idempotent handlers, so a node lost mid-batch triggers redelivery rather than a dropped or double-applied task.

Shortly | Production-Grade URL Shortener | github.com/MeharajThoufik/shortly

May 2026

- Built a high-concurrency URL shortener handling **10k+ req/sec** with per-link usage analytics, using **optimistic locking** to keep click counters correct under concurrent writes without serializing the redirect path.

SKILLS

Languages & Frameworks: Java | Spring Boot | Spring Data JPA | Hibernate | Spring Security | Python | SQL | REST APIs | Microservices | Object-Oriented Design | Design Patterns | Multi-threading & Concurrency | Data Structures & Algorithms

Databases & Distributed Systems: PostgreSQL | MySQL | Redis | Relational & NoSQL Databases | Apache Kafka | Query Optimization & Indexing | Distributed (Multi-Tiered) Systems | Event-Driven Architecture | Idempotency & Exactly-Once Semantics | Optimistic & Distributed Locking | Fault Tolerance & High Availability | System Design

Testing, Tooling & Practices: JUnit 5 | Mockito | Testcontainers | Automated, Functional & Performance Testing | Docker | Maven | Git | CI/CD | GCP | Linux | Agile / Scrum / Kanban | User Stories | Code Reviews | Technical Documentation | Monitoring & Observability | Production Support & Debugging

EDUCATION

K. Ramakrishnan College of Engineering

2020 - 2024

B.Tech, Computer Science and Business Systems

CGPA: 8.6

LEADERSHIP & EXTRACURRICULAR

Founder & President, Ignitra Club | President, CSBS Department Association — KRCE

2022 - 2024

- Founded and led the CSBS department's tech club, tutored **150+ students** in programming and Data Structures & Algorithms, ran a hands-on inter-college **NVIDIA Jetson** workshop, and organized a tech fest drawing **300+ attendees**.