

Mohammed Saifulhuq

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Experience

DLQ Revive (github.com/Saifulhuq01/dlq-revive) — **Open Source Kafka Recovery** April 2026 – Present
Founder & Solo Engineer | Java 17, Spring Boot 3, Apache Kafka, Angular 13+, PostgreSQL Remote

- Validated zero-tooling gap in Kafka DLQ schema recovery via r/apachekafka community research (4 senior engineers, 59K+ LinkedIn reach); architected production-safe consumer using `assign()+seek()` to prevent partition stealing from live consumers.
- Engineered **idempotency guard** on **UNIQUE(topic, partition, offset)** with SELECT-before-produce semantics — pod restarts during bulk redrives cannot double-process financial messages; **JSONata**-only transforms eliminate RCE risk from user input.
- Shipped full open-source core: paginated DLQ reader, schema transformation engine, PostgreSQL audit trail, GitHub Actions CI; MIT licensed with public contributor roadmap.

Apache Fineract (Open Source Core Banking) January 2026 – Present
Open Source Contributor | Java 17, Spring Boot 3, PostgreSQL, Liquibase, Docker Remote

- Patched critical **SQL Injection** in core lending engine; PR #5465 resolved Liquibase migration failures achieving **100% green CI** across PostgreSQL, MariaDB, MySQL. Coordinated directly with PMC members on security roadmap.
- Architecting system-wide **transaction idempotency interceptor** (FINERACT-2485): `OncePerRequestFilter` + PostgreSQL `INSERT ... ON CONFLICT DO NOTHING` atomic locks replacing exception-driven control flow on critical execution path.

Muthu Soft Labs April 2025 – March 2026
Software Developer | Java, Spring Boot, Angular 13+, RxJS, PostgreSQL Chennai, TN

- Reduced Angular initial bundle load by **40%** via OnPush change detection and lazy-loaded modules; eliminated API race conditions using **RxJS exhaustMap/switchMap** pipelines across distributed Spring Boot services.
- Led legacy Angular component migration cutting technical debt; resolved production-critical distributed system bugs directly with stakeholders; enforced SOLID principles through peer code reviews.

Freelance Software Developer June 2023 – March 2025
Independent Contractor | Kotlin, Jetpack Compose, Android, REST APIs Remote (Freelancer.com)

- Delivered Android applications end-to-end for international clients: UI with **Jetpack Compose**, state management via **ViewModel**, REST API integration, and iterative feature delivery from requirement gathering to release.

Vee Technologies July 2024 – March 2025
Associate, Data Operations Chennai, TN

- Managed revenue cycle operations while self-studying Java and distributed systems concurrently; transitioned fully into software engineering within 8 months.

Projects

Apache Fineract GSoC 2026 | System-Wide Command Idempotency Interceptor | Java, Spring Boot 2026
– Proposed $O(1)$ `OncePerRequestFilter` replacing exception-based idempotency; coordinated with PMC Chair to nest as FINERACT-2485 sub-task under architecture epic FINERACT-2169.

Technical Skills

Backend & Distributed Systems: Java 17, Spring Boot 3 (WebFlux, Security), Apache Kafka, Microservices, RESTful APIs, Transaction Idempotency, Async Patterns
Frontend: Angular 13+, TypeScript, RxJS (exhaustMap, switchMap, OnPush), JavaScript, HTML5, CSS3
Databases: PostgreSQL (query optimization, atomic locks, schema migration), MySQL, Liquibase, JPA/Hibernate
Testing & DevOps: JUnit 5, Mockito, EmbeddedKafka, Docker, Docker Compose, GitHub Actions (CI/CD), Git
Tools & Concepts: System Design, JSONata, Linux (Arch/NixOS), Gradle, Maven, SOLID Principles, Network Security

Education

Dhanraj Baid Jain College Chennai, TN
Bachelor of Science in Computer Science (CGPA: 8.52 / 10.00) June 2020 – April 2023