KAPIL HADOLTIKAR

Software Engineer | High-Performance Distributed Systems | Bengaluru, India **(Open to Remote/Relocation)**

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TECHNICAL SKILLS

Languages & Frameworks: Java 21 | Spring Boot | Spring Cloud | Eclipse Collections | SQL (PostgreSQL)

Distributed Systems & Cloud: Apache Kafka | RabbitMQ | Microservices | Redis | Kubernetes | Docker | System Design | Advanced Data Structures | Saga Orchestration

Core Concepts: Distributed Systems Architecture | Data-Structure & Algorithms | Multithreading | ACID Compliance | PCI-DSS Concepts

OPEN-SOURCE CONTRIBUTIONS

Eclipse Foundation | **Eclipse Collections (GS Collections)** *Active Contributor*

- Refactored non-instantiable utility classes to improve library maintainability and align with modern Java standards. (PR #1894).
- Fixed JMH Scala test compilation failures related to Scala 2.13 migration; stabilized the performance benchmarking suite used to validate memory-efficient data structures. (PR #1934) (PR #1917).
- Collaborated with global maintainers via GitHub code reviews, adhering to rigorous enterprise-grade testing and quality standards.

TECHNICAL PROJECT

Distributed Payment Engine | Java 21, Spring Boot, Kafka, Redis, PostgreSQL, Kubernetes

Distributed Payment Engine focusing on transaction integrity, service discovery, and resilient communication.

- **Banking-Grade Compliance**: Implements a **Zero Trust** security model with **PCI-DSS** ready architecture.
- **Transactional Integrity**: Ensures **100% financial consistency (**eventual consistency**)** using the **Saga Pattern** and **Kafka Event Sourcing** to manage distributed transactions.
- **Hybrid Runtime Strategy**: GraalVM Native Images for the Control Plane (0.4s cold starts, 85% memory saving) vs. Standard JVM for the Data Plane (JIT-optimized for mathematical throughput).
- **AI-Powered Risk Management**: **Dual Inference Engine** running Logistic Regression (Champion) and XGBoost (Challenger) in parallel. 0-risk validation of new models while maintaining <1ms decision latency.
- **Observability**: **OpenTelemetry** and **Tempo** provides complete audit trails for every transaction, satisfying strict regulatory requirements (PSD2/GDPR).
- **Optimized system latency:** Redis for distributed caching and PostgreSQL ensuring strict ACID compliance.

EDUCATION

Post Graduate Diploma in Advanced Computing (PG-DAC) | *C-DAC, Hyderabad* | Feb 2024 | 60%

Bachelor of Engineering - Mechanical Engineering | *M. S. Bidve Engineering College, Latur* | May 2021 | 77%