

KAPIL HADOLTIKAR

Java Backend Developer | Immediate Joiner

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Associate Software Engineer | Java 21/25 & Mainframe Modernization

High-aptitude Graduate Engineer with deep technical specialization in **Java 25 (Virtual Threads)** and **Enterprise Mainframe (COBOL/CICS)** systems. Passionate about architecting secure, high-throughput banking solutions and migrating legacy workflows to cloud-native microservices. Proven ability to build **PCI-DSS compliant** applications and implement complex distributed patterns (Saga, Strangler Fig) through advanced independent projects.

SOFTWARE DEVELOPMENT PROJECTS

Hybrid Core-Banking & Payment Gateway (Mainframe Modernization)

Hybrid API Gateway | Java 21/25, Spring Boot 3.4.1, COBOL, JCL, Kafka, PostgreSQL, Docker

- **Architected** a hybrid banking gateway using the **Strangler Fig pattern**, leveraging **Java 25 Virtual Threads** to modernize legacy **Mainframe COBOL** applications while significantly increasing concurrent transaction capacity.
- **Engineered** a high-performance migration engine using **Spring Batch** to synchronize legacy **VSAM datasets** with **PostgreSQL**, implementing custom **EBCDIC-to-ASCII** translation logic to ensure data integrity.
- **Optimized** asynchronous data flow by integrating **Apache Kafka and RabbitMQ** for real-time transaction auditing and persistent webhook delivery, achieving resilient event processing across 7 microservices.
- **Orchestrated** the entire ecosystem via a unified **Docker & Docker Compose** deployment, utilizing automated health checks and dependency gates to ensure reliable service startup and orchestration.
- **Enhanced** observability and security by implementing **OpenTelemetry** distributed tracing (**Tempo/Prometheus**) and **OAuth2/OIDC** with Spring Security, providing full visibility and protection for sensitive financial data.

High-Performance Distributed Payment Gateway

Fintech Microservices | Java 25, Spring Boot 4.0, Kafka, PostgreSQL, Docker, OpenTelemetry

- **Architected** an event-driven platform using **Java 25 (Virtual Threads)** to maximize I/O throughput across 6 microservices for high-concurrency payment processing.
- **Implemented Read-Write Splitting (RWS)** via **AbstractRoutingDataSource** and **AOP**, offloading 60% of read traffic to **PostgreSQL replicas** for optimized primary DB performance.
- **Decoupled Transactions** using **Apache Kafka** for event sourcing and **RabbitMQ** for asynchronous webhooks, ensuring high availability and reliable message delivery.
- **Secured System** with a **PCI-DSS compliant Vault Service** (AES-256 encryption) and implemented **OAuth2/JWT** authentication via Spring Cloud Gateway.
- **Enhanced Observability** by integrating a full-stack **OpenTelemetry** suite (Tempo, Prometheus, Grafana) to enable 360-degree distributed tracing and system health monitoring.
- **Engineered Resilience** through **Docker** containerization and developed **Python load-testing scripts** to benchmark system capacity under peak transaction loads.

Accent (System Automation Tool)

Windows Desktop Utility | JavaFX 21, PowerShell Scripting, Maven

- Created a lightweight utility for Windows that automates system-wide theme and accent changes via **PowerShell registry manipulation**.
- Designed a responsive GUI using **JavaFX** and bundled the application into a portable JAR for seamless deployment.

TECHNICAL SKILLS

- **Languages** Java 21/25 (**Loom/Virtual Threads**), COBOL, SQL (PL/pgSQL), JCL, Python (Scripting)
- **Modern Frameworks** **Spring Boot 4.0.1**, Spring Cloud Gateway, Spring Batch, Spring Security
- **Mainframe Ecosystem** **CICS**, VSAM, DB2 for z/OS, Mainframe Offloading, MIPS Optimization
- **Architecture** **Microservices**, Strangler Fig Pattern, Saga Pattern (Orchestration), Event Sourcing
- **Data & Messaging** **Apache Kafka**, RabbitMQ, PostgreSQL (RWS), Redis, IBM MQ
- **Observability** **OpenTelemetry**, Grafana Tempo, Prometheus, Dynatrace
- **DevOps & Cloud** **Kubernetes (HPA)**, Docker, CI/CD (Jenkins/GitHub Actions), PCI-DSS Compliance

EDUCATION

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

- *Coursework:* Advanced Java, Microservices, Cloud Computing, Database Technologies.

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

- Developed strong analytical problem-solving skills and experience with complex system modeling.

CERTIFICATIONS

- C-DAC Certified Advanced Computing Professional.