

# KAPIL HADOLTIKAR

Java Backend Developer | Immediate Joiner

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## Associate Software Engineer | Java 21/25 & Mainframe Modernization

**High-aptitude Graduate Engineer** specializing in **Java 25 (Virtual Threads)** and **Enterprise Mainframe (COBOL/CICS)** systems. Proven capability in architecting secure, high-throughput banking solutions and migrating legacy workflows to cloud-native microservices. Deeply familiar with **PCI-DSS compliance**, **Distributed Patterns (Saga, Strangler Fig)**, and the performance benefits of **Project Loom**.

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## SOFTWARE DEVELOPMENT PROJECTS

### Hybrid Core-Banking & Payment Gateway (Mainframe Modernization) | [GitHub](#)

Java 25, Spring Boot 3.4, COBOL, JCL, Kafka, PostgreSQL, Docker, OpenTelemetry

- **Architected a legacy-to-cloud migration** using the **Strangler Fig pattern**, incrementally routing traffic from **Mainframe COBOL/CICS** modules to **Java 25 microservices**; leveraged **Virtual Threads** to increase concurrent transaction capacity by 3x without increasing memory footprint.
- **Engineered a Spring Batch migration engine** to synchronize legacy **VSAM datasets** with **PostgreSQL**, developing custom **EBCDIC-to-ASCII** translation logic and checksum validation to ensure 100% data integrity during migration.
- **Decoupled transaction auditing** by implementing an asynchronous event bus via **Apache Kafka**, enabling real-time auditing and persistent webhook delivery across 7 microservices with guaranteed "at-least-once" delivery semantics.
- **Hardened system security & observability** by implementing **OAuth2/OIDC** via Spring Security and deploying an **OpenTelemetry stack** (Tempo/Prometheus) for end-to-end distributed tracing across the hybrid environment.

### High-Performance Distributed Payment Gateway | [GitHub](#)

Java 25, Spring Boot, Kafka, PostgreSQL, Docker, Python (Load Testing)

- **Developed a high-concurrency Fintech platform** utilizing **Java 25 (Project Loom)** to maximize I/O throughput, allowing the system to handle thousands of concurrent payment requests using lightweight virtual threads.
- **Optimized database performance** by implementing **Read-Write Splitting (RWS)** via AbstractRoutingDataSource and AOP, successfully offloading 60% of query traffic to PostgreSQL replicas to preserve primary node resources.
- **Implemented a PCI-DSS compliant Vault Service** featuring **AES-256 encryption-at-rest** and **Spring Cloud Gateway** for centralized JWT authentication and request rate-limiting.
- **Validated system resilience** through **Docker-based orchestration** and custom **Python/Locust load-testing scripts**, benchmarking the system to identify and resolve bottlenecks in the Saga-based transaction flow.

### 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.
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## TECHNICAL SKILLS

<b>Languages</b>	Java 21/25 (Advanced), COBOL, JCL, SQL, Python, Bash
<b>Mainframe</b>	CICS, VSAM, DB2, EBCDIC-to-ASCII Mapping, Z/OS Fundamentals
<b>Modern Backend</b>	Spring Boot 3.4/4.0, Spring Batch, Spring Security (OAuth2/OIDC), Spring Cloud
<b>Architecture</b>	Microservices, Strangler Fig Pattern, Saga (Choreography), Event Sourcing
<b>Data &amp; Messaging</b>	Apache Kafka, RabbitMQ, PostgreSQL (Read-Write Splitting), Redis
<b>DevOps &amp; Cloud</b>	Docker, Docker Compose, OpenTelemetry (Tempo, Prometheus), CI/CD

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## 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.
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## CERTIFICATIONS

- C-DAC Certified Advanced Computing Professional.