KAPIL HADOLTIKAR Java Backend Developer | Immediate Joiner

Bengaluru, India | +91 7888155779 | kapilh.cdac@gmail.com | Portfolio | GitHub | LinkedIn

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Backend Engineer with a deep focus on distributed systems and high-performance Java architecture. Developed a hybrid-runtime payment gateway leveraging **Java 25, JVM / GraalVM Native Image**, and **Spring Boot 4** to achieve a **38% reduction** in **cloud costs**. Expert in building low-latency microservices with **Project Loom (Virtual Threads),** asynchronous messaging via **Kafka**, secure data handling using **AES-256-GCM**, and high-throughput payment ecosystem featuring an **XGBoost/ONNX fraud detection engine**. Passionate about optimizing system throughput and infrastructure efficiency.

SOFTWARE DEVELOPMENT PROJECTS

High-Performance Distributed Payment Gateway | GitHub

- **Hybrid Runtime Optimization**: Engineered a hybrid deployment strategy using **GraalVM Native Image** for the Control Plane (0.4s cold starts) and **standard JVM** for the Data Plane, reducing cloud infrastructure costs by **38%** through optimized pod density.
- **Fraud Prevention**: Integrated an **XGBoost model via ONNX runtime** into a Java-based fraud service, leveraging **Java 25 Virtual Threads** for concurrent feature engineering to achieve a P95 latency of <50ms.
- **Data Security & Compliance**: Designed a **PCI-DSS scoped Vault Service** using AES-256-GCM encryption, ensuring sensitive cardholder data is isolated within a minimal, static binary attack surface.
- **High-Throughput Architecture**: Implemented **AOP-based Data Source routing** to distribute traffic between Primary and Secondary PostgreSQL instances, increasing system read throughput by **40%**.
- **Event-Driven Reliability**: Utilized **Kafka for Event Sourcing** and RabbitMQ for webhook delivery with exponential backoff and Dead Letter Queues (DLQ), ensuring 99.99% transaction reliability.

Accent (System Automation Tool) | GitHub

- 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

Backend & Architecture

- **Languages:** Java 25 (Virtual Threads/Loom), Python, SQL.
- **Frameworks:** Spring Boot 3.x (Security, Cloud, Data, AOP), GraalVM Native Image.
- **Patterns:** Microservices, Event Sourcing, Saga Pattern, CQRS, Reactive Programming.

Data & Messaging

- **Databases:** PostgreSQL (Read-Write Splitting), Redis (Rate Limiting/Caching).

- **Streaming/Messaging:** Kafka (Event Streaming), RabbitMQ (Reliable Delivery/DLQ).
- **Machine Learning:** ONNX Runtime, XGBoost Model Integration.

DevOps & Security

- **Infrastructure:** Kubernetes, Docker, Task (Build Automation).
- **Security:** OAuth2/OIDC, JWT, AES-256-GCM, PCI-DSS Scoping.
- **Observability:** Request Tracing, Structured Logging, Load Testing (Python).

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.