

KAPIL HADOLTIKAR

Java Backend Developer | Immediate Joiner

Bengaluru, India | +91 7888155779 | kapilh.cdac@gmail.com | [Portfolio](#) | [GitHub](#) | [LinkedIn](#)

Backend Engineer (Distributed Systems) Performance-driven Backend Engineer with a focus on high-throughput distributed systems and modern Java architecture. Developed a hybrid-runtime payment gateway utilizing **Java 25 (Virtual Threads)**, **GraalVM Native Image**, and **Spring Boot 3.x**, achieving a **38% reduction in cloud costs** on AWS. Experienced in building low-latency microservices with **Project Loom**, asynchronous messaging via **Kafka/RabbitMQ**, and secure data handling using **AES-256-GCM**. Passionate about optimizing system density and infrastructure efficiency through **AWS Lambda**, **Amazon EKS**, and **XGBoost/ONNX-integrated** fraud detection.

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

Programming & Core Backend

- **Languages:** Java 25 (Advanced: Virtual Threads, Sealed Classes), Python, SQL (PostgreSQL), Bash Scripting.
- **Frameworks:** Spring Boot 3.x (MVC, Security, Data JPA, AOP), GraalVM Native Image.
- **Core Competencies:** Object-Oriented Programming (OOPS), Data Structures & Algorithms (DSA), REST API Design, Concurrency & Multithreading.

Cloud & DevOps

- **Cloud Platforms:** AWS (Lambda, EC2, RDS, S3), **AWS SnapStart**, **RDS Proxy**.

- **Containerization:** Docker, Container Orchestration (Kubernetes basics).
- **CI/CD & Tools:** Git/GitHub, Maven, Jenkins (Basics), Task/Make (Build Automation).
- **Observability:** Structured Logging, Distributed Tracing (AWS X-Ray/CloudWatch).

Data & Messaging

- **Distributed Systems:** Kafka (Producer/Consumer API), RabbitMQ (Exchanges, Queues, DLQ).
- **Database Management:** Read-Write Splitting, Indexing, Query Optimization, Redis (Caching).
- **Machine Learning Integration:** XGBoost, ONNX Runtime (Java Integration).

Security & Compliance

- **Standards:** PCI-DSS Scoping, OAuth2, JWT Authentication.
- **Encryption:** AES-256-GCM, SSL/TLS, **AWS KMS/CloudHSM** (Basics).

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.