

AMAL SANKAR P

Java Backend Engineer — Spring Boot — FinTech — AI Systems

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PROFESSIONAL SUMMARY

Java Backend Engineer with nearly two years of experience building enterprise fintech applications and AI-powered business platforms. Experienced in Spring Boot microservices, secure REST APIs, payment integrations, multi-tenant architecture, and modern AI solutions. Strong background in delivering production systems for remittance, payroll, digital identity, card authentication, and enterprise HR platforms.

CORE SKILLS

- **Languages:** Java (8–25), SQL
- **Frameworks:** Spring Boot, Spring MVC, Spring Security, Spring Data JPA, Hibernate
- **Databases:** PostgreSQL, SQL Server, MySQL, Qdrant
- **Architecture:** Microservices, Multi-Tenancy, Hexagonal Architecture, Asynchronous Processing, Scheduled Tasks
- **Cloud & DevOps:** AWS CloudWatch, Google Cloud Storage (GCS), Docker, Git, Maven
- **Security & Integrations:** JWT, OAuth2, UAE PASS, 3DS Authentication, Webhooks, T24 Core Banking, REST APIs
- **AI & Product Engineering:** LLM Integration, RAG, MCP, Prompt Engineering, BMAD Methodology, Agentic Workflows
- **Tools:** IntelliJ IDEA, Eclipse, Postman, Swagger/OpenAPI, Flyway

PROFESSIONAL EXPERIENCE

Java Developer

Sep 2024 – Present

M2H Infotech LLP

AlfaPay - Remittance & Digital Payments

- Designed and delivered 60+ production REST APIs supporting onboarding, remittance, bill payment and customer profile management.
- Integrated EFR facial verification into customer onboarding and transaction workflows.
- Implemented audit trails for profile updates, beneficiaries and financial operations.
- Enhanced production observability using trace-based logging, Spring Boot Actuator and AWS CloudWatch.
- Built dynamic PDF generation for reports and transaction documents.

UAE PASS Integration

- Integrated UAE PASS into Sign Up, Sign In and Re-KYC workflows.
- Implemented secure token handling, webhook callbacks and session validation.
- Improved onboarding using government-backed digital identity verification.

AANI Instant Payments

- Implemented Send Money, Request Money, beneficiary management and transaction lifecycle APIs.
- Integrated biometric verification for high-risk payment authorization.

WPS / MOHRE Payroll System

- Developed one of the core payroll modules of AlfaPay supporting UAE WPS and MOHRE compliance for enterprise employers.
- Built Salary Information File (SIF) generation, employer onboarding, employee management and payroll processing workflows.
- Integrated payroll funding through banking channels with payment validation, compliance verification and reporting.
- Developed payroll reports, payslip generation, registration, deregistration and verification workflows.

API Aggregator

- Built a lightweight partner API gateway with Partner ID authentication and endpoint authorization.
- Implemented ACTION-based request routing to standardize communication with backend services.

WPS Suspense Flow - Al Masraf Bank

- Enhanced the legacy Spring MVC based WPS product by implementing the suspense-account settlement module for Al Masraf Bank.
- Added ACK/NACK processing, configurable VAT handling and T24 Core Banking integration while preserving existing production workflows.

3DS Out-of-Band Authentication

- Built secure card authentication using CoreCard 3DS with Firebase and Huawei HMS Push notifications.
- Implemented transaction state management and secure notification delivery.

OfficeKit - Performance Assessment System (PAS)

- Designed and developed the Performance Assessment System (PAS), an AI-powered module within the OfficeKit platform, using Java Spring Boot 4, React Native and PostgreSQL.
- Built goal management, KPI tracking, appraisal cycles, employee development plans and reporting.
- Engineered an AI coach that evaluates uploaded evidence, maps achievements to KPIs and recommends scores using confidence-based reasoning.
- Developed AI-powered prediction, recommendation, motivation and explainability capabilities with persistent AI decision history.
- Implemented Hibernate-based multi-tenancy, asynchronous audit logging, scheduled automation and Flyway-managed schema migrations.
- Integrated Google Cloud Storage and external OfficeKit modules including reporting hierarchy, LMS and rewards.

EDUCATION

B.Tech Computer Science and Engineering

APJ Abdul Kalam Technological University

2020–2024

CGPA: 7.62

TRAINING

Java Developer Trainee

JSpiders

Jun 2024 – Sep 2024

- Developed Spring Boot applications using JPA and Hibernate.
- Implemented authentication, CRUD operations and exception handling.
- Practiced API testing, debugging and Git-based development workflows.