

AHMAD AMIRIZAL RAHMAT

Java Developer · Full-Stack Engineer

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Profile

Full-stack developer with 4+ years delivering secure, cloud-native applications across banking, insurance, telecom, and government. Specializes in Java and Spring Boot backend engineering, REST API design, and React/Angular frontend integration, with hands-on experience in CI/CD pipelines, containerized deployments, and cross-region stakeholder collaboration.

Career Highlights

- Currently engineering tokenization and batch payment processing systems for merchant onboarding at Global Blue.
- Delivered secure Spring Boot microservices powering fund transfer and core banking operations for CIMB's OCTO Mobile App.
- Integrated Guidewire Policy Center across cross-border insurance operations for Topdanmark, partnering directly with stakeholders in Denmark.

Work Experience

Java Developer — Global Blue *Feb 2026 – Present*

- Own end-to-end development of Spring Boot backend modules for the merchant onboarding platform, engineering JWT-based tokenization and verification workflows that govern every new merchant registration.
- Architect and drive a Spring Boot batch payment processor handling scheduled transaction processing, directly enabling reliable merchant payment operations at scale.
- Drive production deployment and release management for the merchant onboarding platform, resolving live issues to sustain stable, uninterrupted service across back-to-back releases.

Software Developer — INSCALE Malaysia *May 2025 – Feb 2026*

- Drove requirements alignment directly with stakeholders in Denmark, translating Property and Motor insurance needs into Guidewire Policy Center enhancements adopted with zero disruption to live operations.
- Owned backend module development in GOSU for Guidewire Policy Center and shipped frontend features in Salesforce using ReactJS and Node.js, directly improving portal usability for business teams.
- Engineered API integrations between Guidewire Policy Center and external systems, eliminating data inconsistencies and sustaining stable performance across cross-border operations.

Software Engineer — Penril Datability *Apr 2023 – May 2025*

- Embedded for 2 years within CIMB's Scrum Agile Squad on the Novus Project, owning core feature delivery for the next-generation CIMB OCTO Mobile Application used by CIMB's retail banking customers.
- Designed and built secure Spring Boot microservices exposing REST APIs for fund transfer, foreign transfer, maintenance control, and centralized transaction logging, implementing OAuth2 token validation to directly strengthen the reliability and security of core banking operations.
- Architected an AWS S3-integrated Receipt Generator that automated receipt storage and retrieval end-to-end, eliminating manual reconciliation work and improving customer experience.
- Rebuilt key CIMB Back Office Portal workflows in AngularJS and Node.js, integrating frontend components with backend APIs for transaction monitoring, maintenance scheduling, and Master Switch controls, and drove cross-functional API performance tuning for seamless data flow with the CIMB Mobile Application.

Java Developer — Microlink Solutions Berhad *Jul 2022 – Apr 2023*

- Owned delivery of customer management features for the TM Stellar CRM Project within Telekom Malaysia's agile team, building on Java, Spring Framework, and SQL.
- Drove feature validation with QA and business analysts, catching alignment gaps early and minimizing post-release defects.
- Owned L2 support and production monitoring for CRM batch systems, sustaining SLA compliance and reducing downtime on mission-critical operations.
- Optimized Spring-based queries and batch jobs, cutting processing delays and improving overall CRM system responsiveness.

Programmer Analyst — **Bahagian Pengurusan Hartanah, JPM (Jabatan Perdana Menteri)** *Jan 2022 – Jul 2022*

- Redesigned a government system interface with stakeholders and led user acceptance testing for a low-disruption rollout.
- Built and integrated the SISTA (Sistem Pinjaman Peralatan ICT) subsystem end-to-end as a J2EE web application, automating ICT equipment loan requests and approvals using Java, JSP, Servlets, and SQL.

Technician (Internship) — **Mass IT** *Jul 2021 – Dec 2021*

- Diagnosed and repaired 50+ customer PCs and laptops, including motherboard, RAM and storage replacements.

Projects

Instant Transfer Switch — **Java 21 · Spring Boot · Go · ISO 20022 · PostgreSQL** GitHub

- DuitNow-style real-time interbank switch with net debit caps, timeout reversals (camt.056) and daily settlement.

invoisku — **Java 17 · UBL 2.1 · XAdES · java.net.http** GitHub

- Open-source engine for Malaysia's MyInvois (LHDN) e-invoicing: builds, validates, signs and submits e-invoices.

asean-qr — **TypeScript · EMVCo · Vitest · npm** npm · GitHub

- Zero-dependency npm library to read and generate DuitNow, PayNow, PromptPay, QRIS and VietQR payment QR codes.

Merchant Dashboard — **React 19 · TypeScript · Tailwind CSS · TanStack Query** Live demo · GitHub

- React web app merchants use to manage payments, refunds and payouts, with an idempotent virtual terminal.

Payment Assistant — **Spring AI · Amazon Bedrock · RAG · pgvector** GitHub

- AI support assistant that answers merchants from their live payment data (tool calling) and the gateway docs (RAG).

Kira: Offline-First Finance App — **React Native (Expo) · SQLite · Spring Boot · PostgreSQL** APK · GitHub

- Android/iOS budgeting app that works offline on SQLite and syncs devices via a Spring Boot API with rotating JWT tokens.

Skills

Languages & Frameworks	Java, Spring Boot, Spring Security, Spring Batch, Hibernate, REST APIs, OpenAPI, JWT, OAuth2.0, OIDC, React, React Native (Expo), Angular, Node JS, TypeScript, JavaScript, Tailwind CSS, Go, J2EE, JSP
Cloud & DevOps	AWS Cloud, Docker, Docker Compose, Kubernetes, Kustomize, Jenkins (JCasC, Job DSL), GitHub Actions, CI/CD, Prometheus, Grafana, Apache Kafka, Maven, Gradle, Git, SonarQube, JUnit, Mockito, Vitest
AI & LLM	Spring AI, Amazon Bedrock, Ollama, RAG, LLM Tool Calling, Vector Search (pgvector)
Databases	MySQL, PostgreSQL, Oracle SQL, Microsoft SQL Server, IBM DB2, MongoDB, SQLite, Flyway
Practices	Agile / Scrum, Microservices, Event-Driven Architecture, Idempotent API Design, Offline-First Sync, Payment Tokenization, Batch Payment Processing, ISO 20022, AI-Assisted Development (Claude Code)
Languages Spoken	English, Malay

Education

Bachelor of Science (Hons) in Information Technology *Jan 2025 – Dec 2027 (ongoing)*
Malaysia University of Science and Technology (MUST) · CGPA: 3.38 (current)

Diploma in Computer System *Jul 2020 – Jan 2022*
Advanced Technology Training Center (ADTEC) · CGPA: 3.25

Certificate in Computer System *Jul 2018 – Mar 2020*
Institut Latihan Perindustrian (ILP) · CGPA: 3.81

Sijil Pelajaran Malaysia (SPM) *Jan 2012 – Dec 2016*
Sekolah Menengah Kebangsaan Semambu · Pass