

Amine Amatoury

Backend Software Engineer · Java / Spring Boot · Agentic AI Systems

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Backend engineer building high-volume transaction systems on Java and Spring Boot, most recently in card payments. Cut a production settlement run from hours to minutes, led a 17-service platform modernization, and built agentic-AI delivery pipelines and quality gates that hold AI-generated code to production standards.

EXPERIENCE

Backend Software Engineer · areeba Technologies SAL

Sep 2024 – Jun 2026

- Cut a 100k–500k transaction settlement run from 4.5 hours to 2 minutes, **over 100x**, by replacing per-transaction lookups with cached BIN-range and currency reference data and targeted indexes.
- Designed and ran an **agentic-AI delivery system on Claude Code** ahead of mainstream adoption: a 10-gate, human-reviewed pipeline (analysis, planning, TDD, implementation, e2e testing against the dev environment) that holds agent output to the same standards as hand-written code, so what ships is production-safe.
- Ran the full project-management loop, from triage and standups to time logging, through that pipeline; in one session around 20 parallel agents cleared roughly **750 code-quality issues** in a production payments service.
- Owned card clearing and settlement across the **Visa, Mastercard, Meeza, and Discover/DCI** networks, from inbound parsing to outbound generation; delivered Discover/DCI end-to-end and added single-message processing.
- Led the platform-wide modernization of **17 services** and shared libraries to Java 25 and Spring Boot 3, and wrote the reference migration the rest of the team followed.
- Migrated inter-service messaging from JSON to **Avro on Kafka**, with a schema registry that rejects breaking changes before deployment and dead-letter recovery for failed records.
- Built a reusable **end-to-end and performance test framework** that drives the full outgoing settlement-file pipeline across two services, checking new card-scheme work against production-shaped data before release.

Backend Software Engineer · Digital Solutions Development (TSU IT Department)

Sep 2022 – May 2024

- Built the backend of an internship-management platform: **~8 Spring Boot microservices** behind an API gateway (Java, PostgreSQL), integrated with the 1C:University enterprise system to automate contract creation.

PROJECTS

- **FinanceForge.** A self-hosted finance system on a double-entry ledger with multi-currency and multi-asset tracking, and a REST API an AI assistant operates to keep the books. Java, Spring Boot, Vaadin, SQLite.
- **Claude OS.** A personal AI-assistant platform on Claude Code, in daily use across work, finances, and projects: a git-synced, cross-device knowledge base, hook-driven automation, and custom MCP integrations.
- **Company Orchestrator.** An autonomous AI software company that ships production code with no human in the loop and improves its own codebase over time. A single Spring Boot engine deterministically orchestrates a 32-role AI org, decomposing an entire venture into thousands of small, reproducible tasks, each run by a specialist in its own Claude Code session and gated by independent review, tests, and CI. Java, Spring Boot, PostgreSQL.

TECHNICAL SKILLS

LANGUAGES	Java, SQL, TypeScript, Python
AI ENGINEERING	Claude Code, Anthropic API, Model Context Protocol (MCP), multi-agent orchestration, agentic delivery pipelines, TDD-gated agent workflows
BACKEND	Spring Boot 3/4, Spring Cloud, Spring Security, Spring Data JPA, Hibernate, OpenFeign, JWT/OAuth 2.0
PAYMENTS	ISO 8583, card clearing & settlement, Visa BASE II, Mastercard IPM, interchange (IRF), presentments, single- and dual-message processing, jPOS/jPOS-EE
DATA & MESSAGING	PostgreSQL, Flyway, Redis, Apache Kafka, Avro, Schema Registry
DEVOPS & TESTING	Docker, Kubernetes, Gradle, CI/CD, Micrometer/Prometheus, JUnit/Mockito, TDD, SonarQube

EDUCATION

BSc, Software Engineering · Tomsk State University · Tomsk, Russia

2020 – 2024

Spoken Languages: Arabic (native); English, French, Russian (fluent); Spanish, Serbo-Croatian (intermediate)