

Amine Benmansour

Technical and application architect · banking and payments, healthcare, real time

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Profile

14 years of Java development and architecture, 11 of them inside the systems of major French banks. On every engagement I owned the application architecture and the flow architecture: microservices, event-driven architecture with Kafka, core banking and mainframe integration, idempotency, error recovery, monitoring. Speciality: cards and fraud: Apple Pay and Google Pay tokenisation, balance check with the processor and VISA, interactive SMS and fraud disputes; I have also delivered beyond banking: medical practice software built alone, in pilot, and real-time flows for RATP. I write the architecture recommendations, defend them with the teams and deliver them to production.

Skills

Architecture	application and flow architecture, microservices, event-driven architecture (EDA), DDD, hexagonal architecture, Event Sourcing / CQRS, sagas and compensation, idempotency, REST / OpenAPI, ADRs
Flows and data	Kafka (Avro contracts, Schema Registry, retry, dead-letter), IBM MQ, RabbitMQ, ActiveMQ, Spring Batch, CFT, PostgreSQL, Oracle, MongoDB, SQL Server, Flyway
Integration	Temenos T24 core banking, Monext card processor, IBM mainframe (CICS / CTG), Feign, OAuth 2.0, SAML
Platform	Kubernetes (GKE, OpenShift), Google Cloud, AWS, Azure, Helm, Kustomize, ArgoCD, GitLab CI/CD, Jenkins, SonarQube
Operability	Dynatrace, Grafana, Elasticsearch / Kibana, Datadog, Gatling, production incident management
Development	Java 8 to 21, Spring Boot 2 and 3, Quarkus, GraalVM, TDD / BDD (Cucumber), JUnit, Testcontainers
Regulation	PCI DSS, DORA, KYC, ACPR requirements, instant payments and verification of payee (EU Regulation 2024/886)
Applied AI	coding agents, MCP servers (GitLab, Jira, Confluence, Kibana, JFrog), Claude Code, GitHub Copilot, Anthropic, OpenAI and Vertex AI APIs

Experience

LCL (Crédit Agricole group)

December 2025 – present

Senior Java engineer, application and flow architecture, card-payment fraud squad

- Interactive SMS (SMSI) for card, transfer and cheque fraud handling: design and development of the Java 21 / Spring Boot microservices, the Kafka event flows with Avro contracts, the REST APIs and the mainframe exchanges (CICS / CTG).
- Roll-out of the interactive SMS for LCL's new offer: customer fraud disputes.
- Card SMSI: Kafka retry strategy, replayable dead-letter and idempotency of every external call, removing the risk of blocking a card twice; alerting on failures.
- Recommended a reference resilience pattern for Kafka consumers chaining several external calls (saga, PostgreSQL progress registry, dead-letter, monitoring), offered to the tribe's other microservices.
- AI incident-analysis agent (MCP to Kibana, Jira, Dynatrace); CVE-remediation agent applied to two microservices; secure file-transfer component in progress (Spring Batch, encryption, CFT).

Java 21, Spring Boot, Kafka, Avro, REST, CICS / CTG, PostgreSQL, Kubernetes, ArgoCD, GitLab CI, Kibana, Grafana, Dynatrace, CFT

BforBank (Crédit Agricole group)

January 2023 – September 2025

Lead developer / tech lead, architecture of the card and tokenisation platform

- Application architecture and development of the Java 21 / Spring Boot 3 microservices for the card lifecycle (issuing, activation, blocking, PIN) and Apple Pay / Google Pay tokenisation, in hexagonal architecture; improved tokenisation performance.
- Diagnosis of the balance check between BforBank, the Monext processor and VISA.
- Flow architecture: defined the Kafka event-driven architecture and traded off synchronous calls against Kafka to meet VISA's response times; REST / OpenAPI contracts with the Monext processor and the Temenos T24 core banking system.
- Spring Boot 2 to 3 migration and GraalVM Native Image; resolved a production latency incident on the private GCP to on-premise link.
- GitLab and ArgoCD CI/CD on GKE, SonarQube, CVE tracking, Datadog and Dynatrace observability; Clean Code and TDD / BDD spread through code review.

Java 21, Spring Boot 3, Confluent Kafka with schema registry, REST / OpenAPI, GCP / GKE and on-premise, ArgoCD, GitLab CI/CD, PostgreSQL, GraalVM, Datadog, Dynatrace

Société Générale

July 2021 – December 2022

Team lead and Java developer, retail banking document management APIs

- Application and flow architecture of the Spring Boot APIs fronting document management and of the Spring Batch jobs, within a SAFe train.
- Measured and reduced response times; Gatling load tests to locate bottlenecks; deployment automation, code review, onboarding.

Java 8, Spring Boot 2, Spring Batch, MongoDB, Amazon S3, Gatling, Jenkins

BPCE-IT

October 2019 – July 2021

Tech lead alongside the architect, group private cloud portal

- Event Sourcing / CQRS application architecture and the portal's state machine; stateless Spring Boot microservices, TDD.
- Flow architecture for automated provisioning (vCenter / CSA) and multi-provider management (CSA, AWS, Azure) over RabbitMQ; attribute-based access control (ABAC), cloud cost chargeback.

Java 8, Spring Boot, Event Sourcing / CQRS, RabbitMQ, MongoDB, PostgreSQL, Jenkins, XL-Deploy

Bpifrance

February 2018 – September 2019

Team lead in a team of 13, loan-guarantee subscription extranet (BEL project)

- Application architecture of the new customer portal in Clean Architecture and of the REST exchange flows; technical direction and code review; REST services in TDD, Jenkins CI, OpenShift deployment.

Java 8 / 10, Spring Boot 2, JAX-RS, JPA, Angular, Oracle, Jenkins, OpenShift

Natixis Wealth Management

September 2015 – February 2018

Java developer and team lead (team of 4), KYC, ACPR scoring and identity federation

- Hexagonal application architecture for the private bank's applications (ACPR scoring, KYC completeness, mobile customer portal); identity-federation flows with a SAML identity provider (OpenSAML); life-insurance subscription services.

Java 7 / 8, Spring / Spring Boot, JBoss, SQL Server, OpenSAML, Jenkins

Earlier experience

Sopra Steria, for RATP and Île-de-France Mobilités (February 2012 – August 2015): Java / JEE developer. Real-time passenger-information flows (OSGi / Karaf, Apache Camel, CXF, ActiveMQ), regulation UI, geographic reference systems (Hibernate, PostgreSQL, ArcGIS).

Own projects

IAMINE Compta

2026

Double-entry accounting on top of a banking API: PostgreSQL ledger with balance enforced by the database, SHA-256 hash-chained immutable entries; bank ingestion through a Quarkus / GraalVM service publishing to Kafka (one partition per account, one idempotency hash per transaction). A full fiscal year replayed: income statement identical to the cent to the accounting firm's. 401 tests.

Liam Medical

October 2025 – June 2026

Medical practice software designed and delivered alone (Java 21, Spring Boot 3, PostgreSQL): patients, consultations, PDF prescriptions; 26 years of history migrated; AI assistance running locally.

Education and languages

Master's degree in business IT (MIAGE), Université Nice Sophia Antipolis (2012). French (native), professional English, Arabic.