

SAÏFOULAYE DIALLO

Senior Backend Engineer

Java • Spring Boot • Distributed Systems • Banking & Payments

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PROFESSIONAL SUMMARY

Senior Backend Engineer with 4+ years owning production Java / Spring Boot systems — REST APIs, microservices and Kafka event flows for banking and payment platforms. Designs service boundaries, API contracts and reliability patterns (idempotency, audit, high availability), then ships them to production (Docker, Kubernetes, CI/CD). Technical ownership with product, QA and engineering teams. Based in Dakar (GMT), bilingual French / English.

CORE EXPERTISE

Backend: Java, Spring Boot, Spring Security, Spring Data, REST APIs, Event-driven Architecture, OpenAPI, OAuth2, JWT

Architecture: Software Architecture, Distributed Systems, Microservices, API Design, System Integration, Legacy Modernization

Data & Messaging: PostgreSQL, MySQL, Oracle, MongoDB, Kafka, RabbitMQ, Redis

Reliability: High availability, audit logging, idempotency, retries, production engineering

Cloud & Platform: Docker, Kubernetes, AWS, CI/CD, Terraform, Linux, GitLab CI, Jenkins

FinTech / Payments: Payment APIs, Mobile Money, Payment Orchestration, Transaction Processing, Reconciliation

PROFESSIONAL EXPERIENCE

Senior Backend Engineer — Banking Platforms

Feb. 2025 – Present

Synapse Groupe — Client: Bank of Africa Group

Dakar, Senegal

- Drove backend modernization of enterprise banking platforms (Java / Spring Boot, microservices, clean architecture) serving 11+ Bank of Africa Group subsidiaries — standardizing integration patterns and raising maintainability of core services.
- Designed and evolved critical backend services for payments, transfers and transaction processing on high-volume systems.
- Designed secured enterprise REST APIs connecting banking applications, middleware and third-party systems — versioned contracts, audit logging, isolation of core systems.
- Implemented append-only writes and transaction reconciliation so every money movement remains explainable for finance, audit and compliance.
- Industrialized operational resilience and high availability (Docker, Kubernetes, CI/CD) for critical production services.
- Held technical ownership with product, QA and multiple engineering teams — code reviews, software quality, Agile Scrum.

Environment: Java, Spring Boot, Docker, Kubernetes, CI/CD, Microservices, Clean Architecture, Scrum.

Software Engineer — FinTech & Payments

Jul. 2023 – Feb. 2025

ENG Technologie Group

Dakar, Senegal

- Owned backend microservices for digital credit, customer onboarding and payment workflows on a FinTech platform.
- Integrated Wave and Orange Money; designed Kafka event flows and explicit idempotency so retries cannot double-debit.
- Hardened APIs with Spring Security and improved payment operations reliability in production (AWS, Docker, GitLab CI/CD). *Environment:* Java, Spring Boot, AWS, PostgreSQL, Apache Kafka, Docker, GitLab CI/CD, Scrum.

Software Engineer — SaaS Platform

Jun. 2022 – Nov. 2023 (parallel ENG from Jul. 2023)

Mafalia — Ecom & Fintech Applications

Dakar, Senegal

- Owned backend services and REST APIs for a multi-tenant SaaS — inventory, orders, sales and financial workflows for SMEs.
- Improved performance through query optimization, caching and asynchronous processing, keeping reporting off the collection path.
- *Environment:* Java, Spring Boot, MySQL, REST APIs, Agile XP.

Software Engineer

Dec. 2021 – May 2022

SarayaTech

Senegal

- Delivered backend services and domain features for patient management, consultations and prescriptions on a clinical platform.
- Designed secured REST APIs across business modules; improved performance with caching and asynchronous processing.
- *Environment:* Java, Spring Boot, REST APIs, Scrum.

SELECTED PROJECTS

Unified API Gateway	Architecture & integrations
- Gateway as a boundary: authentication, routing, rate limiting and provider orchestration for multi-entity banking integrations. - Edge JWT, RBAC, request audit logging and versioned REST contracts to protect core systems while opening partner APIs. Patterns from Synapse / Bank of Africa Group delivery.	
Pan-African Payment SDK	Payment infrastructure
- Single API to initiate, confirm and reconcile Orange Money, Wave and Free Money payments — 3+ wallets behind one contract. - Spring Boot adapters, Redis idempotency keys, Kafka settlement events, signed requests and HMAC webhook validation. Patterns proven on ENG Technologie FinTech delivery.	
Ecom 360 SME	SaaS platform
- All-in-one platform: POS, real-time inventory, Wave & Orange Money tied to each sale, multi-store and accounting exports. - Multi-tenant Spring Boot REST API, async reporting jobs and role-based access — 500+ active merchants in Senegal and West Africa. ecom360pme.com	

TECHNICAL STACK

Languages: Java (8–21), SQL, TypeScript
Backend: Spring Boot, Spring Security, Spring Data JPA, Spring Cloud Gateway, REST APIs, OpenAPI / Swagger, OAuth2, JWT
Data & messaging: PostgreSQL, Oracle, MySQL, Redis, MongoDB, Kafka, RabbitMQ
Architecture: Microservices, modular monolith, clean / hexagonal architecture, DDD, Event-Driven, API-First
Cloud & DevOps: AWS, Docker, Kubernetes, Terraform, GitHub Actions, GitLab CI, Jenkins, Maven, Git
Also: Angular, React, Next.js — when the API surface needs a client

EDUCATION

Master’s, Software Engineering	May 2024 – Present
Université numérique Cheikh Hamidou KANE (UN-CHK)	<i>Dakar, Senegal</i>
Bachelor’s, Mathematics & Computer Science	Jan 2020 – May 2024
Université numérique Cheikh Hamidou KANE (UN-CHK)	<i>Dakar, Senegal</i>
Computer Programming BootCamp	Jan 2022 – Oct 2022
SarayaTech	<i>Senegal</i>

LANGUAGES

French — Native / professional bilingual		English — Professional (business / technical writing)
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