

Exhorte BABOKA MBOUMBA

Full-Stack Developer

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Profile

Full-Stack Developer with hands-on experience designing end-to-end web and mobile applications: 3-tier architecture, secure REST APIs, event-driven microservices, and integrating AI features into real products (conversational assistants, multi-agent orchestration). Core stack: Java/Spring Boot, TypeScript/Next.js/React, Python, PostgreSQL, Docker.

Education & Certification

Bachelor's Degree in Software Engineering

10/2023 – 08/2026

ISI (Higher Institute of Computer Science) | Dakar

Capstone project: Tontyn — secure web/mobile platform for managing community savings circles (tontines)

Java 17 · Spring Boot 3 · React 18 · Flutter · PostgreSQL · Docker · JWT/OTP · DeepSeek API

- 3-tier architecture (React/Flutter, Spring Boot, PostgreSQL) exposing 56 REST endpoints covering the entire tontine lifecycle: contribution cycles, beneficiaries, digital receipts.
- Email + OTP authentication (2FA), JWT, BCrypt, and per-tontine authorization (member/admin access control).
- Payment reliability scoring, automated reminder/penalty engine, and an AI conversational assistant (DeepSeek API) to answer member questions (with a degraded mode if the API key is missing).
- Back-end deployed on Render (Docker), front-end connected to the production API.

Professional Experience

Affiliate Mobile Developer

02/2026 – 04/2026

Incogia group

Developed and deployed the back-end of an Android e-commerce/affiliate app published on the Google Play Store (50+ active users): debugging, Gradle builds, CI/CD integration.

Projects

Distributed Banking System — Microservices Architecture

Java 21 · Spring Boot · Spring Cloud · Kafka · Redis · PostgreSQL

- Distributed banking platform: authentication, customer, account, and transaction microservices.
- API Gateway, service discovery (Eureka), centralized configuration (Spring Cloud Config), OAuth2/JWT security.
- Event-driven architecture with Kafka, Redis caching, domain-separated PostgreSQL databases, orchestrated with Docker Compose.

Horizon — FinTech Platform

05/2026

Next.js · TypeScript · Appwrite · Plaid · Dwolla · Tailwind CSS · Zod

- Multi-bank account connection, balance/transaction viewing, and expense tracking via a financial dashboard; integrated Plaid (bank sync) and Dwolla (fund transfers).
- SSR authentication, data validation, filterable/paginated transactions, responsive UI.

Full-Stack E-Commerce Platform

07/2026

Next.js · TypeScript · Payload CMS · MongoDB · Stripe · Docker

- Product catalog, user accounts, orders, customer portal, and checkout flow; integrated Stripe (payments, webhooks, product/price/customer sync).
- Headless CMS with Payload, admin dashboard, custom back-end endpoints, containerized deployment with Docker.

AI Software Architect — Multi-Agent SaaS

07/2026 – present

Platform

Next.js 16 · TypeScript · React 19 · Prisma 7 · PostgreSQL · Liveblocks · React Flow · Trigger.dev v4 · Gemini · DeepSeek

- Designed a SaaS platform that turns a business idea into engineering deliverables (requirements, user stories, architecture, ADRs, UML/C4/ERD, roadmap, backlog) through a multi-agent pipeline driven by a coordinator.
- Orchestration runtime with schema-validated shared memory (JSON Schema/Ajv), artifact traceability, optimistic versioning; end-to-end development of the first agent team (Business Team): human clarification loop, asynchronous resume via Trigger.dev v4 (waitpoints), real-time Liveblocks tracking — 179 tests.
- Multi-LLM abstraction with provider selection (Gemini by default, DeepSeek as a fallback), automatic retry on transient errors, per-model capability management.

Technical Skills

- **AI & Agent Engineering:** LLMs, Generative AI, AI Agents, Multi-Agent Systems, Agent Orchestration, Agentic Workflows, Prompt Engineering, Tool/Function Calling, Human-in-the-Loop, Multi-LLM Systems, Vercel AI SDK, Trigger.dev, Liveblocks, React Flow
- **Backend & Architecture:** Java, Spring Boot, Spring Cloud, Python, Django, Laravel, Node.js, Next.js, REST APIs, Microservices, Event-Driven Architecture, Distributed Systems, API Gateway, OAuth2, JWT
- **Frontend:** React, Next.js, TypeScript, JavaScript, HTML5, CSS3, Tailwind CSS, shadcn/ui, React Native, Flutter
- **Databases & Data:** PostgreSQL, MySQL, MongoDB, Redis, Prisma, SQL, Data Analysis
- **DevOps & Infrastructure:** Docker, Docker Compose, Kubernetes, CI/CD, Linux, Git, GitHub

Soft Skills

- Motivation and a positive attitude
- Communication skills
- Adaptability
- Problem-solving
- Leadership and mentoring
- Patience and empathy
- Organizational skills
- Time management

Languages

French

Native

English

Intermediate

Interests

Running · Chess · Poker