

WAONGO SILVÈRE ÉTIENNE

Senior Software Engineer – Fintech & Mobile

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\$ SUMMARY

Senior software engineer with 6+ years building payment systems and mobile applications for West African markets: banks (CORIS), World Bank financed platforms (FONGAB), and consumer fintech. Led development of **Yembi** at DOKAL-Africa, an offline-first Android app parsing mobile money SMS into structured finances at 99%+ accuracy; sole engineer from first commit through the March 2026 Play Store launch, now leading the team growing it. I specialize in software that survives real field constraints: 2G networks, SMS-as-API, multi-SIM devices, zero-connectivity operation. Full-stack autonomy across Kotlin/Android, Flutter, Node.js/TypeScript and PostgreSQL/MySQL, working in French and English.

\$ SELECTED PRODUCT WORK

Yembi – Mobile money tracking · lead engineer, DOKAL-Africa · 2024–present · live 03/2026

- Sole engineer from first commit through Play Store launch: Kotlin/Jetpack Compose app (MVVM + Clean Architecture, Room + SQLCipher, Hilt), Node.js/TypeScript management backend (Docker on AWS ECR), Angular/Ionic admin portal, ML-assisted parser pipeline, and the Play Store listing. Now onboarding the second engineer.
- Config-driven SMS parsing engine, 7 transaction types across Orange Money & Moov Money at **99%+ measured accuracy**; format changes deploy as data, not releases.
- Idempotent multi-device sync (SHA-256 content keys, persistent retry queue, exponential backoff): **zero data loss or duplicates** on unstable 2G.
- **<50ms queries on 1M+ rows** in encrypted databases via composite indexing, on mid-range hardware.

BetPay – Automated betting payments · side project, in development · 2025–present

- SaaS automating deposits/withdrawals between mobile money and betting platforms; deploying soon on a phone farm with fleet management. Multi-role portal (agent → superadmin) with automatic 1% referral commissions.
- Dual-app trust architecture: unauthenticated Flutter client + privileged Kotlin admin app; documented WebSocket protocol; OCR balance verification; automated WhatsApp failover for operator downtime.

\$ PROFESSIONAL EXPERIENCE

Lead Developer · DOKAL-Africa, Ouagadougou · 10/2023 – present

- Led the flagship product Yembi end to end (above) and contributed to Dokal Pay, the company's first payment app (Angular/Ionic/Capacitor, web + Android from one codebase, CloudFront delivery).
- Deliver web applications, payment portals and USSD services for West African markets; all KPIs achieved across three years, fully remote. Zero security incidents on payment integrations.
- Mentor developers: onboarded Yembi's second engineer; supervised a React/Express product to production; instituted code-review processes that cut production defects.

French Localization Consultant · International technology company, remote · 11/2022 – present

- Long-term remote consultant localizing a widely used software product into French, to international quality standards. Concurrent with engineering roles; shows sustained reliability with an international client and bilingual (FR/EN) fluency.

Lead Developer · IKA SOLUTION, Ouagadougou · 09/2022 – 10/2023

- Led FONGAB (CCI-BF, World Bank-financed) to on-time, on-budget delivery.
- Architected SharePoint intranets for CORIS BANK INTERNATIONAL & CORIS HOLDING; bilingual stakeholder coordination.

- Delivered mobile payment portals for merchant transactions on regional networks.

Developer · EVENIT, Ouagadougou · 08/2021 – 08/2022

- Driver's license management system (Django/PostgreSQL); mobile payment portal on regional networks; Ionic/TypeScript payment app; significant query-optimization gains.

Fullstack Developer · SONABEL (national electricity utility) · 12/2020 – 07/2021 (intern 09–12/2020)

- Built invoicing & project-management software (Spring Boot + Angular) — still in production; automated MT/HT refundable project invoicing, eliminating manual errors.

\$ SKILLS

Mobile: Kotlin · Jetpack Compose · Room/SQLCipher · Hilt · Flutter · offline-first

Backend: Node.js/TypeScript · Express · WebSockets · REST · Django · Spring Boot

Data: PostgreSQL · MySQL · SQLite · Prisma · indexing & query optimization

Frontend: Vue 3/Nuxt 3 · React · Angular · Astro · Tailwind

Fintech: mobile money · SMS/USSD · payment portals · idempotency · audit trails · OCR

Security: SQLCipher · cert pinning · JWT · rate limiting

Ops: Docker · AWS · CI/CD · structured logging

\$ EDUCATION

B.Sc. Computer Science (Information Systems)

École supérieure d'informatique, Bobo-Dioulasso — 2020

\$ WRITING & COMMUNITY

Technical blog at waongo.dev — fintech & offline-first architecture for low-bandwidth markets (FR/EN). Mentor to junior developers in Francophone Africa's tech ecosystem.