

SERGE JUNIOR LIBOCK

Software Engineer • Fullstack TypeScript

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SUMMARY

Fullstack software engineer with 4+ years shipping production web and mobile systems end-to-end — from NestJS / Prisma APIs and PostgreSQL data layers to Next.js, React, and React Native clients. Currently leading the frontend on Tefo, a Core Banking System serving 100,000+ clients at Afriland First Bank South Sudan, where I also built an in-house RAG-powered code-review agent on top of the Anthropic API. TypeScript-first across the stack, with applied AI training from Johns Hopkins University and a strong interest in FinTech, banking platforms, and AI-augmented engineering.

SKILLS

Languages	TypeScript, JavaScript, Java, Kotlin, C, SQL
Backend	NestJS, Node.js, Express, SpringBoot, Prisma, Socket.io, REST & GraphQL APIs
Frontend	Next.js, React, React Native, Ant Design, Formik, React Query, Zustand, Tailwind CSS
Databases & Cache	PostgreSQL, MySQL, MongoDB, Redis
DevOps & Build	Docker, Firebase, Turborepo, Yarn / pnpm workspaces, GitLab CI, Bitbucket Pipelines, AWS (foundations)
Auth & Identity	NextAuth, Keycloak (OIDC), JWT, OAuth 2.0
Testing & Quality	Jest, Cypress, React Testing Library, JUnit, Mockito, ESLint, Prettier, SonarQube
AI / Applied	Anthropic API, RAG pipelines for engineering workflows, LLM-assisted code review, Applied AI in Finance (Johns Hopkins)
Tooling & Process	Git (GitHub, GitLab, Bitbucket), UML, MermaidJS, Jira, Confluence

SELECTED PROJECTS

Blitz — Real-Time Multiplayer Skill-Gaming Platform · *in active development*

Feb 2026 – Present

Self-directed fullstack TypeScript project — React Native Android app and Next.js 14 PWA over a single modular NestJS backend; sole engineer across backend, frontend, and CI/CD.

- Architected the platform end-to-end — system design, 74-feature MVP and v1.x roadmap, threat model, and a surface-aware compliance design covering wallet, KYC, and real-money policy across native and PWA surfaces.
- Building the NestJS backend (Prisma + PostgreSQL, Redis 7 for sessions / matchmaking / pub-sub, Socket.io for realtime gameplay) with integrations for AWS S3, SMS OTP, and Campay mobile money (Orange Money + MTN MoMo).
- Implementing the Next.js 14 PWA and React Native client (Zustand + React Query, Skia rendering, FCM / Web Push) over a Turborepo / pnpm-workspaces monorepo with shared TypeScript packages for game logic and types.
- Own the CI/CD setup on Bitbucket Pipelines (lint, typecheck, Jest) with multi-stage deploy targets wired for dev / QA / production.

EXPERIENCE

Software Engineer — Tefo (Core Banking System)

Oct 2023 – Present

PKFokam Research Center · Afriland First Group

- Designed and built @tefo/mr-review, an in-house RAG-powered code-review agent on the Anthropic API that retrieves per-MR context from Jira (acceptance criteria), Confluence (entity specs), GitLab (diffs and discussions), and live Swagger contracts, then posts inline + general review comments back to the MR — meaningfully reducing reviewer load on a multi-team monorepo.
- Architected the Tefo frontend monorepo (Turborepo + Yarn workspaces) — two Next.js 13 apps (core-bank, superadmin) and 10 shared TypeScript packages (ui, services, auth, view-engine, web-sockets, utils) — and enforced a strict domain-driven structure (api → service → React Query hooks → page) across the codebase.
- Lead the frontend chapter on Tefo, a high-availability Core Banking System for Afriland First Bank South Sudan (100,000+ clients, 24/7 SLA) integrating 19 banking microservices across accounting, transactions, KYC/AML, audit, parties, products, and till operations.
- Shipped a custom accounting-schema generator on top of Google's Blockly API, delivering a 350% efficiency gain for bank accountants when modeling new financial products.
- Established an end-to-end Cypress automation suite that accelerated QA verification cycles by approximately 620%; integrated NextAuth + Keycloak OIDC, Socket.io realtime, Ant Design, Formik, and React Query as the core stack.
- Mentor junior engineers, run architecture and code reviews, and drive process experiments (branch-routing rules, MR templates, CI quality gates) that consistently improve team throughput.

Project Manager — KANU (Knowledge for Africa's New Uprising)

Sept 2025 – Present

Afriland First Group

- Lead end-to-end delivery of a pan-African knowledge-sharing platform connecting think-tank collaborators, researchers, and policymakers across the continent.
- Coordinate cross-functional engineering, design, and product teams on roadmap, technical architecture, and UX, balancing stakeholder priorities against engineering capacity.

- Define and prioritize features (think-tank collaboration spaces, governance frameworks, opportunity marketplaces) based on member feedback and the organization's mission to democratize knowledge access in Africa.
- Business & Functional Analyst — Tefo** Dec 2024 – Present
- PKFokam Research Center · Afriland First Group
- Translate banking-expert requirements into functional and technical specifications for 90+ Tefo modules (accounting engines, transactions, KYC, AML, audit logs), aligning specs with regulatory, accounting, and operational standards.
 - Review UI/UX deliverables against requirements and Swagger contracts to catch discrepancies early and reduce downstream rework.

- Mobile Engineer — SARA by Afriland** Feb 2023 – June 2024
- PKFokam Research Center · Afriland First Group
- Owned the maintenance and evolution of SARA by Afriland, a React Native mobile banking app serving Côte d'Ivoire and Liberia.
 - Designed and shipped revenue-generating features including utility bill payments and wallet-to-wallet transfers across Orange Money, MTN MoMo, and E-Wallie.
 - Delivered the transfer feature that drove 7,500 active users and roughly \$30,000 USD in first-month revenue.

- Freelance Fullstack Engineer** Feb 2022 – Present
- Remote
- Designed, built, and maintained fullstack web and mobile applications for clients across events, catering, and digital services.
 - Built "UFood Restaurant" — a fullstack platform spanning a Next.js / React Native customer app, a restaurant operations dashboard, and internal logistics tooling.
 - Built "AttendanceX" — an event management application with real-time attendance tracking and schedule management.

EDUCATION

- Siantou University Institute** — Bachelor of Technology, Software Engineering Sept 2021 – July 2022
- Siantou University Institute** — Higher National Diploma, Software Engineering Sept 2020 – July 2021
- PKFokam Institute of Excellence** — University Studies, Computer Science Sept 2017 – Dec 2020

CERTIFICATIONS

- Applied AI in Finance** — Johns Hopkins University June 2026
- Strategic AI Leadership in Finance** — Johns Hopkins University June 2026

LANGUAGES

French (Native) • English (C1, IELTS) • German (B1, Goethe Institut)