

Igbiriki Francis Richard

Senior Software Engineer | Product Architect

Lagos, Nigeria | +234-813-704-5484 | francis.igbiriki@gmail.com

LinkedIn | Github | Website

PROFESSIONAL SUMMARY

Senior Software Engineer with over 8 years of experience across the full software engineering lifecycle, specializing in scalable backend architecture, system design, and product-led engineering. Proven track record of serving over 500,000 users and reducing infrastructure costs by up to 50% through rigorous optimization. Expert in navigating complex technical landscapes—from fintech compliance to blockchain interoperability—while leading cross-functional, global teams. Background in Mechanical Engineering drives a first-principles approach to problem-solving, adaptability to legacy systems, and rapid mastery of new technologies.

CORE COMPETENCIES

- **Languages:** Rust, Go, TypeScript/JavaScript, Python, C/C++, C#, Solidity, Lua.
- **Frameworks:** Next.js, React, React Native, Vue.js, Nest.js, Express.js, FastAPI, Redux, TailwindCSS, Selenium, Tokio, Flutter, Gin.
- **Databases:** PostgreSQL, MongoDB, Redis, MySQL, Neo4j, IndexedDB, SQLite.
- **DevOps & Cloud:** AWS (EC2, Cloud9), Digital Ocean, Docker, Kubernetes, Jenkins, Version Control (Git), GitHub Actions, Vercel, Heroku, Linux.
- **Tools & Monitoring:** NATS, Kafka, RabbitMQ, Sentry, New Relic, Loggly, Mixpanel, ZohoCRM, PostHog.
- **Architecture & Concepts:** Microservices, System Design, REST/GraphQL APIs, CI/CD, Agile/Scrum, Web3/Blockchain.

PROFESSIONAL EXPERIENCE

OneRemit | *Senior Software Architect*

Remote | **Feb 2026 - Present**

- **Payments & Integrations:** Architected a complete TerraPay cross-border payout integration end-to-end in ~2 days. Unified four payment providers (TerraPay, Esca, OwlPay, Palmpay) into a single abstract payout terminal with a poll-based status reconciliation system.
- **Security & Compliance:** Led security hardening by implementing TOTP, PAN encryption, foreign-login detection, KYC webhook handling, and role-based access control (RBAC).
- **Backend & Infrastructure:** Designed a transactional email pipeline with Celery and SMTP fallback. Stood up staging infrastructure from scratch and built CI/CD pipelines across four repositories, standardizing linting with Biome and ruff.
- **Observability & Frontend:** Drove org-wide PostHog analytics adoption. Integrated Sentry and GTM with GDPR compliance. Built secure session lifecycle management flows with 2FA recovery and mobile-responsive transaction UIs.

- **Technical Leadership & External Relations:** Served as the primary technical liaison, orchestrating communication between the company and external security auditors, API integration engineers (e.g., TerraPay), and ERP system consultants.

Lingawa | *Senior Software Engineer*

Remote | Mar 2025 - Feb 2026

- **Backend Architecture & Performance:** Engineered system-wide optimizations reducing API response times by 89% and load times by 75% through advanced query aggregation, custom JWT authentication, and Redis caching strategies.
- **Infrastructure Optimization:** Orchestrated containerized environments using Docker and Docker Compose, implementing dependency injection optimizations that reduced server resource consumption by 50%.
- **Product Engineering:** Spearheaded the redesign of the lesson booking architecture to eliminate onboarding friction. Developed a high-conversion gamified onboarding flow (18% visitor conversion) integrating Stripe (Card, Apple/Google Pay).
- **Admin & Internal Tools:** Refactored Notification Services and Admin Dashboards, reducing API call times from 5 minutes to 90 seconds and ensuring stability during critical rebranding initiatives.
- **Analytics & Data:** Implemented robust telemetry using Mixpanel to drive data-informed UI/UX improvements and "Human-in-the-Loop" AI strategies for curriculum generation.

NPC Labs | *Co-Founder & Chief Product Officer*

United States (Remote) | September 2023 - December 2025

- **Hybrid Architecture:** Designed a hybrid architecture integrating on-chain logic with off-chain services to solve critical interoperability limits, enabling seamless multi-chain features and administrative controls.
- **Infrastructure Strategy:** Mitigated user churn by leading the migration to Layer-2 solutions (Base, Polygon) and implementing rapid-failover backup systems to maintain 99% uptime during network congestion.
- **Strategic Partnerships:** Secured a strategic partnership to patent proprietary NFC technology, resolving logistics friction points for "Phygital" assets and ensuring long-term product viability.
- **Product Leadership:** Led cross-functional teams in product roadmapping and market analysis, directly driving revenue growth and product-market fit.

NPC Labs | *Technical Lead Engineer*

US | Dec 2022 - Sept 2023

- **MVP Development:** Built and launched the initial MVP which secured \$250,000 in pre-seed funding.
- **DevOps & Quality Assurance:** Managed version control using Git and established robust CI/CD pipelines using GitHub Actions, Vercel, and Docker. Implemented comprehensive monitoring (Sentry, Loggly, PostHog) to proactively identify and resolve issues.
- **Cross-Functional Leadership:** Fostered collaboration between engineering, design, and marketing to ensure smooth product launches.

Ajian Labs | *Founder & Lead Engineer*

NG | Dec 2022 - Present

- **Technical & Business Leadership:** Led key technical decisions and aligned them with business objectives, crafting comprehensive Product Requirements Documents (PRDs), Functional Requirements Documents (FRDs), business proposals, and financial goals.
- **Infrastructure & Automation:** Set up robust CI/CD pipelines using GitHub Actions, standardizing development flows and ensuring reliable, automated deployments.

- **Standards & Best Practices:** Implemented engineering workflows and coding standards that streamlined project delivery and reduced technical debt.
- **System Architecture:** Architected a P2P Cryptocurrency trading platform and wallet using TypeScript, MongoDB, Redis, and Bitcore/Tatum SDKs.
- **Mentorship:** Fostered a productive environment for interns, improving team productivity by 50% through structured roadmaps and career development.

Kunda Box | Software Engineer

US | Apr 2023 - Jun 2023

- **Blockchain Infrastructure:** Architected a custom local Ethereum Classic testnet containerized via Docker, enabling gas-free local testing and significantly reducing development costs.
- **Performance Engineering:** Optimized high-volume media rendering by implementing server-side image processing (Sharp/FFmpeg), ensuring rapid page loads across devices.
- **Legacy Modernization:** Refactored legacy Node.js backends from callback-based patterns to Async/Await, establishing a rigorous CI/CD testing suite with 265+ coverage points.
- **Quality Assurance:** Employed Selenium and Jest for automated testing of user interactions, accelerating the initial launch by 25% and improving user retention by 140%.

VeendHQ Inc. | Software Engineer (Fintech)

Wilmington, DE | Apr 2022 - Dec 2022

- **Operational Efficiency:** Engineered a fully automated credit decisioning pipeline, eliminating manual underwriting by integrating real-time identity verification and proprietary scoring algorithms.
- **Cost Reduction:** Architected a campaign automation engine reducing user operational costs by ~90% and significantly increasing platform accessibility.
- **Incident Response:** Led rapid incident response and performed debugging to identify and fix critical loan disbursement failures within 90 minutes.
- **DevOps & Cloud:** Managed deployment pipelines using AWS, Docker, and Linux, increasing deployment frequency by 30%.
- **Team Leadership:** Promoted to Team Lead within 7 months, managing a team of 12+ and conducting code review sessions to ensure code quality.

Akaani | Software Developer

US | Jul 2021 - Apr 2022

- **System Architecture:** Designed and implemented the core server application using Node.js, Docker, and a robust testing suite (Mocha, Jest, Supertest).
- **AI & Automation:** Integrated "Lu" (Recommendation AI) for personalized meal suggestions and automated Slack webhooks for real-time operational alerts (orders, waitlists, errors).
- **Developer Experience:** Engineered CLI scripts to auto-generate boilerplate code and test cases, standardizing the codebase and accelerating new engineer onboarding.

Vomoz Limited | Frontend Lead

US | Jan 2021 - Jul 2021

- **Strategic Delivery:** Directed the frontend architectural strategy, selecting a component-driven design system that accelerated product delivery by 50%.
- **System Reliability:** Engineered advanced state management (Redux) and error-handling layers to mask legacy system instability, ensuring a crash-free user experience.
- **Performance:** Refactored API modules to simplify error handling, reducing integration time by 20% and increasing website leads by 200% through a data-driven redesign.

Afridash Limited | Frontend Developer Intern

Nigeria | July 2019 - Dec 2019

- **Frontend Development:** Engineered interactive front-facing web pages using React.js, HTML5, and CSS3. Managed application state with class-based components and efficiently consumed RESTful APIs.
- **Rapid Prototyping (Hackathon):** Achieved 2nd Runner-up at the SDN Hackathon 2019 (Team Loop) by architecting a fully functional PWA survey application within three days, specifically designed with offline capabilities for areas with limited internet connectivity.

Freelance | Contract Developer

Nigeria | Dec 2018 - Dec 2020

- **Full-Stack Development & Modernization:** Upgraded clients' existing infrastructures to modern web technologies (PWA), achieving 60% faster load times and maintaining 99% server uptime.
- **Frontend Engineering & UX:** Built pixel-perfect, responsive UIs from Figma designs, ensuring strict cross-browser compatibility and accessibility using Lighthouse and SEO rankers.
- **DevOps & Maintenance:** Served as a dedicated DevOps engineer for legacy projects, managing server configurations and ongoing maintenance to increase platform stability.
- **Community Leadership:** Hosted and organized a free Web Development Boot Camp, successfully teaching HTML, CSS, and JavaScript fundamentals to over 40 teenagers.

EDUCATION

Miva Open University | Masters Business Administration

Sep 2025 - Present

- **Minor:** Managing Disruptive Innovation, Digital Business Transformation, Supply Chain Management, Organizational Behaviour & Leadership.

Niger Delta University | Bachelor of Science - Mechanical Engineering

Dec 2015 - Jul 2021

- **Minor:** Numerical Methods & Computational Logic, Control Systems Engineering, Engineering Statistics, Industrial Management.

Ebitare Computer Training Institute | Diploma - Desktop Publishing

2014

AWARDS

2nd Runner Up: NDDC Hackathon | NDDC Team Loop

Nov 2019

INTERESTS

- Open Source Contribution, Blockchain Technology, AI/ML, Mentoring, Computational Mechanics.