

Ogwu-Nelson David Chikabadu

Senior AI & Full-Stack Engineer | Systems Architect

Lagos, Nigeria | +234-704-330-6040 | ogwunelsondavid@gmail.com

[LinkedIn](#) | [Github](#) | [Website](#)

PROFESSIONAL SUMMARY

Senior Full-Stack Engineer and Systems Architect with 6+ years of experience specializing in production AI systems, distributed microservices, and high-performance applications. Expert in the TypeScript ecosystem (Node.js, Next.js, React Native) and deeply proficient in engineering agentic workflows, integrating on-device LLMs, and leveraging Claude Code to accelerate development velocity. Proven track record of architecting type-safe backend environments using gRPC and optimizing complex real-time systems while bridging the gap between advanced AI capabilities and scalable business logic

CORE COMPETENCIES

- **AI & Automation:** Claude Code Fluency, LLM Orchestration, Agentic Workflows, On-Device LLM Integration, Prompt Engineering, RAG Frameworks.
- **Languages:** TypeScript/JavaScript, Go, Rust, Python, C/C++, SQL.
- **Frameworks:** Next.js, React, React Native, Nest.js, Express.js, FastAPI, Jotai, Redux.
- **Databases & Caching:** PostgreSQL, Redis, MongoDB, SQLite, IndexedDB.
- **DevOps, Cloud & Infra:** Docker, Kubernetes, gRPC (Protocol Buffers), AWS, GitHub Actions, CI/CD, Linux.

PROFESSIONAL EXPERIENCE

Technova Technologies (Masters Energy Oil & Gas) | Senior Backend Engineer | Dec 2025 – Present

- **AI Tooling Integration:** Fully integrated **Claude Code** into daily local development workflows, leveraging agentic terminal execution to accelerate microservice refactoring, automate unit testing suites, and boost sprint velocity.
- **Distributed Architecture:** Architected a type-safe communication layer using gRPC and Protocol Buffers, streamlining high-throughput data exchange across Accounts, POS, and Business microservices.
- **Fintech Innovation:** Engineered a "Dual-Debit" accounting pattern for agency banking, ensuring atomic precision for transfers by balancing customer NIP transactions against agent service fees.
- **Feature Leadership:** Led end-to-end delivery of Agency Card Withdrawal and Terminal Unassignment, coordinating hardware-state logic in POS-Service with Gateway-API orchestration.

Ajian Labs | Software Engineer | March 2024 – Aug 2025

- **Crypto Infrastructure:** Developed the SmartX crypto exchange mobile app (React Native), implementing secure real-time wallet management and trading features.
- **Ecommerce:** Built the Tsunami Ecommerce platform using **Next.js**, translating high-fidelity Framer prototypes into a responsive, high-conversion frontend.
- **Consultancy:** Acted as lead technical consultant for global clients, delivering full-stack MERN solutions with a focus on TypeScript for 40% fewer production bugs.

Spacebank | Software Developer & Team Lead | Nov 2022 – Feb 2024

- **Full-Stack Launch:** Spearheaded the development of the Spacebank web app (Next.js/Node.js) from ideation to launch.
- **Web3 Integration:** Collaborated on Blockchain service integration for decentralized financial transactions.
- **Quality Engineering:** Implemented unit testing suites (Mocha/Chai), increasing API reliability and reducing deployment regressions.

Lifestack Technologies | SW Engineer & Project Manager | Feb 2023 – Present

- **Product Delivery:** Managed the full lifecycle for Saveply (informal sector savings) and Pennystack (pension platform).
- **Agile Leadership:** Introduced Sprint-based workflows and daily stand-ups, improving team velocity by 25%.

CORE SKILLS

Languages: Typescript, Javascript, Python, Rust, SQL, HTML/CSS

Backend/Infra: Node.JS, Express, gRPC, Redis, MongoDB, Docker, AWS

Frontend: React, Next.JS, React Native, TailwindCSS, Jotai, ContextAPI

Tools: Git, CI/CD, Linux(Ubuntu), Android Studio, Trello

Concepts: Logic & Efficiency, Data Structures & Algorithms

SELECTED AI & FULL-STACK PROJECTS

SilkRoad Sentinel | Lead Architect & Developer (MeDo Hackathon)

- **Production AI & Analytics:** Engineered a high-density market activity aggregator and global status dashboard utilizing agentic data-collection workflows.
- **High-Density UI:** Built a minimalist, high-density neo-brutalist professional dashboard using Next.js to visualize real-time market activity heatmaps.
- **Performance:** Implemented ultra-low latency data ingestion utilizing Node.js streams and Redis caching to handle live data feeds seamlessly.

Dissi Voice Assistant | Core Developer

- **On-Device AI Workflows:** Architected a localized voice assistant focused on privacy and speed by integrating on-device LLMs for real-time natural language processing and task automation.
- **Agentic Execution:** Programmed robust agentic workflows enabling the assistant to securely interface with local OS APIs, orchestrate file systems, and execute complex user automation macros.

Tournamante (Full-Stack Architecture)

- Developed a dual-platform tournament management engine using Node.js/TypeScript and React Native.
- Built a real-time sync layer with **Socket.io** for live match updates and automated bracket generation.
- Integrated **Stripe** for automated fee collection and **Resend** for transactional workflows.

Swissly (macOS App) | Creator

- **Desktop Engineering:** Developed a native-feeling macOS menu bar application using Electron and TypeScript, featuring live wallpaper rendering and real-time audio visualization frameworks.
- **Optimization:** Optimized native OS bindings to ensure minimal CPU and RAM usage, successfully packaging and distributing the application via custom DMG pipelines.

EDUCATION

Miva Open University | BSc. Software Engineering (In View) | Expected Sept 2026

- *Focus:* AI/ML, Data Structures & Algorithms, Advanced Systems Design.

NIIT | Diploma in Software Development | *Graduated July 2021*

MicTech Computer Training Institute | Diploma - Desktop Publishing | **2014**

INTERESTS

- Table Tennis (Advanced competitive player, pro-equipment/world rankings)
- Photography & Video Editing
- Classical Philosophy (Stoicism)