

OLUWASEYI IDOWU

Senior Fullstack & Platform Engineer

Ibadan, Nigeria · Open to Remote

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PROFESSIONAL SUMMARY

Senior Fullstack & Platform Engineer with 5+ years building and operating production-grade systems across health-tech, fintech, SaaS, and developer tooling. Backend and distributed-systems specialist (TypeScript/NestJS, Rust/Axum, Python/FastAPI, PostgreSQL, Redis) with strong frontend delivery in React and Next.js. Led end-to-end delivery of HIPAA-compliant platforms, AI agent infrastructure, vector search, multi-environment CI/CD, and payment systems — improving reliability, cutting deployment cycles, and hardening production infrastructure.

CORE SKILLS

Languages: TypeScript, JavaScript, Rust, Python, Go

Backend & APIs: NestJS, FastAPI, Express, Django, Axum (Rust), GraphQL (Apollo), REST APIs, WebSockets, Socket.io, Microservices

Frontend: React, Next.js (App Router), Angular, Vite, Redux Toolkit, TanStack Query, Tailwind CSS

Mobile & Data: React Native (Expo), Tauri 2 (Rust), PostgreSQL, Redis, MongoDB, ChromaDB (Vector), Prisma, TypeORM, BullMQ, SQLx

DevOps & Architecture: Docker, Kubernetes, GitHub Actions CI/CD, AWS (ECS, S3, RDS, etc), Nginx, Linux, Distributed Systems, RAG / AI Agents, Authentication & Security, Observability

PROFESSIONAL EXPERIENCE

Internova Technologies (Theraply) — Lead Fullstack Engineer

Aug 2025 – Present

- Led architecture and delivery of a HIPAA-compliant health-tech platform, owning backend services, frontend applications, and infrastructure automation across production environments.
- Designed a secure document-analysis service with custom middleware for PII detection, request threat analysis, and malicious-payload filtering.
- Built multi-environment CI/CD (Dev/Staging/Prod) with GitHub Actions and SSH-based automation, cutting release cycles by 50%; hardened security with Redis-backed honeypot monitoring and non-root containers, reducing unauthorized access attempts by 60%.
- Integrated resilient Stripe and Payscale payment workflows with idempotency protections and cryptographic webhook validation, achieving 99.9% transaction reliability.

Jethro Ltd — Frontend Engineer

Aug 2024 – Jul 2025

- Led frontend development for PayCollect and DocStream — fintech products handling payment-collection and document-processing workflows for business-critical operations.
- Built the PayCollect dashboard with role-based views for payment tracking, merchant onboarding, and real-time transaction analytics.
- Engineered secure JWT auth flows with auto-logout and permission-based rendering; built multi-channel gateway UIs (HTTP, SMPP, email) with server-side pagination and schema-validated forms.

Sparkly — Backend Engineer (Remote)

Sep 2024 – 2026

- Designed and built a multi-platform community-management system with automated onboarding and moderation, increasing engagement by 50%.
- Engineered global payment processing (Stripe, Flutterwave) with cryptographic webhook signature verification to prevent replay attacks and ensure transaction integrity.
- Implemented TOTP/JWT two-factor authentication and Redis caching that reduced database load by 40% under sustained concurrent workloads.

HNG Open Source Engineering Program — Software Engineer (Cohort 11 & 13)

2024 – 2025

- Developed high-concurrency Rust microservices (Axum, Tokio) for authentication and payments with async PostgreSQL connection pooling for production-grade throughput.
- Built a RAG and semantic-search service with vector-database integration over thousands of documents, with chunking optimized for LLM context windows.
- Architected a modular NestJS boilerplate adopted by 50+ developers; engineered a Tauri 2 desktop app and a JSON-RPC 2.0 N8N executor via the Agent-to-Agent (A2A) protocol.

PayRent — Fullstack Engineer (Contract)

2025

- Delivered a full-stack real-estate platform — React Native (Expo) app and backend API — for tenants, landlords, and property managers with role-based access control.

- Built a marketplace API with real-time chat and notifications over WebSocket, and CI/CD (GitHub Actions, Docker) that cut deployment time by 50%.

Fitzzy Systems Limited — Backend Engineer / CTO

Mar 2023 – Mar 2024

- Led backend architecture and engineering-team delivery, improving application responsiveness by 50% through system redesign and performance optimization.
- Designed RESTful APIs serving millions of daily requests with Node.js, Express, and MongoDB; introduced Docker and Kubernetes orchestration.
- Conducted code reviews and mentored engineers to grow team capability and delivery quality.

Techivate Ltd — Backend Engineer

2023

- Built a secure e-commerce platform for military and security agencies with session management and XSS mitigation for 10k+ daily users.
- Integrated Stripe/Paystack (improving checkout completion 30%) and optimized AWS EC2 + Redis caching, reducing API latency by 50%.

OpenReplay — Technical Writer (Remote)

2023

- Produced developer-focused technical content and tutorials on frontend architecture, APIs, and modern JavaScript ecosystems for an open-source developer tool.

SELECTED PROJECTS

- **Vestly API** — Multi-tenant property-management API with an immutable, append-only ownership-credit ledger, org-level data isolation, async job processing, RBAC, and full test coverage (*Express, MongoDB, TypeScript, BullMQ, Redis, Zod, Docker*)
- **FileNest** — Production GraphQL API for file upload and management with JWT auth, S3-compatible object storage, and real-time upload notifications via subscriptions (*NestJS, GraphQL, TypeORM, PostgreSQL, MinIO, Apollo*)
- **RAG & Search Service** — Vector-search pipeline for semantic retrieval over thousands of PDFs with async embedding updates and zero-downtime indexing (*NestJS, ChromaDB, RAG, Microservices*)
- **Domain-Master** — Autonomous AI agent for domain analysis and expiry tracking with structured output validation and intelligent Whois fallback for 99% availability (*TypeScript, Mastra, LLM, Zod*)

CERTIFICATIONS & EDUCATION

Kubernetes and Cloud Native Associate (KCNA) — 2026

2× HNG Finalist (Cohort 11 & 13) — 2024 & 2025

ALX Certified Backend Engineer — 2023

ALX AI Career Essentials — 2023

ALX – Holberton School — Software Engineering (Certificate), 2022–2023

Federal University of Technology, Akure — B.Tech, Meteorology, 2013–2018

PUBLICATIONS & LANGUAGES

“Building an AI-Powered Domain Expiry Checker: A Mastra.ai Deep Dive” — Mastra.ai, 2025

“Understanding API Like a Pro” — Dev.to, 2024

Languages: English (Native / Bilingual) · Spanish (Professional Working Proficiency)