

ODINAKA ROBERT NNAMANI

Full-Stack Software Engineer · Backend & Systems Specialist

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(Remote/Relocation Ready)

PROFESSIONAL SUMMARY

Full-stack engineer with 3+ years building and running production systems. Currently building Rootmail, a multi-tenant email-infrastructure platform I designed and built solo and now run in production, after leading engineering at an early-stage consumer marketplace. Depth in Node.js/TypeScript and Python backends, distributed queueing, API design and cloud infrastructure (AWS, Docker, Terraform), with systems-level grounding in C. I own systems end to end: architecture, implementation, deployment and the on-call that follows.

WORK EXPERIENCE

Founder & Principal Engineer · [Rootmail](#) · Remote Jun 2026 – Present

- ▶ Designed and built a production email-infrastructure platform end to end — 112,000 lines of TypeScript across a six-app, nine-package pnpm/Turborepo monorepo, delivered solo in under three months.
- ▶ Architected a three-layer data model that serves a solo developer and a multi-tenant platform from a single API: workspaces spawn sub-tenants with independently verified sending domains, per-tenant DKIM keys and isolated reputation — with no migration between tiers.
- ▶ Built the sending core on Fastify, Drizzle/PostgreSQL and a Redis/BullMQ priority queue, with idempotency-key exactly-once delivery, suppression checks before every send, and an append-only lifecycle audit log per message.
- ▶ Implemented Ed25519-signed, independently verifiable proof bundles capturing a message's full lifecycle and content hash, giving regulated buyers an exportable audit artefact per message.
- ▶ Shipped the surrounding platform solo: first-party auth (TOTP MFA, OAuth, SAML), Stripe billing, inbound SES parsing and threading, an operator dashboard, and TypeScript, Go and Python SDKs.

Chief Technology Officer · [Outly Technologies](#) · Lagos, Nigeria Feb 2026 – Jun 2026

- ▶ Technical lead of an early-stage consumer marketplace: designed and built the mobile product end to end — BFF architecture, REST APIs and the client experience — from zero to a working app.
- ▶ Made the caching and data-modelling decisions at architecture stage that cut app load times by 40%, rather than optimising a slow product after the fact.
- ▶ Concluded the marketplace was not finding traction and redirected the effort into Rootmail, rather than continuing to build something the market was not asking for.

Full-Stack Software Engineer · [Oneshot Translation](#) · Portage, MI, USA (Remote) Dec 2024 – Dec 2025

- ▶ Designed and shipped full frontend and backend systems for a document translation SaaS, achieving 99%+ annual uptime through proactive infrastructure management.
- ▶ Built a custom AWS Lambda pipeline to automate document ingestion and processing, eliminating a manual workflow and cutting turnaround time by ~60%.
- ▶ Collaborated directly with US-based clients to translate requirements into production features, managing sprints and delivery milestones independently.

Full-Stack Software Engineer · [African Learners Experience \(ALX\)](#) · Nairobi, Kenya Jul 2023 – Aug 2024

- ▶ Architected and deployed a multi-server Airbnb clone with round-robin load balancing, successfully doubling the system's capacity to handle concurrent user traffic.
- ▶ Engineered a RESTful API with Redis-backed session authentication in Python/Flask, securing user sessions across a mobile application with zero reported auth vulnerabilities.
- ▶ Implemented a custom printf function in C and a UNIX shell interpreter from scratch — demonstrating deep systems-level knowledge in memory management and process execution.
- ▶ Contributed to open-source repositories on GitHub, building a public portfolio of collaborative engineering work.

FEATURED PROJECTS

Intelligent Writing Assistant [GitHub →](#) *Python · FastAPI · PostgreSQL · React.js · Redis · PyTest*

- ▶ Built a full-stack AI writing tool with real-time grammar checking, plagiarism detection, content summarisation, and auto-completion — demonstrating end-to-end product ownership from database schema to user interface.

Custom printf & UNIX Shell (Systems Programming) [GitHub →](#) *C · Bash · Shell*

- ▶ Implemented a spec-compliant printf in C supporting multiple format specifiers, and a full UNIX command interpreter with environment variable management — showcasing low-level systems expertise rarely seen at the mid-level.

TECHNICAL SKILLS

Languages: Python, TypeScript / JavaScript, Node.js, C, Ruby

Frameworks: Fastify, Express.js, FastAPI, Flask, React.js, Angular, GraphQL, REST APIs

Databases: PostgreSQL (Drizzle ORM), MongoDB, Redis, Oracle SQL — data modelling, indexing & migrations

Cloud & DevOps: AWS (Lambda, EC2, S3, SES/SESv2), Docker, Terraform (IaC), CircleCI, Turborepo / pnpm monorepos, Linux / Bash

Testing: Jest, Mocha, Sinon, PyTest, node:test — TDD & unit/integration testing

Practices: Distributed queueing & event-driven workers, multi-tenancy & tenant isolation, idempotency and retry semantics, cryptographic signing (Ed25519), system design, Agile / Scrum

EDUCATION

Software Engineering Certification · [ALX Africa \(African Learners Experience\)](#) · Nairobi, Kenya *Jul 2023 – Aug 2024*

- ▶ Graduated 128.19 / 150% — top of cohort. Intensive programme covering systems programming, distributed systems, full-stack development, and engineering best practices.

B.Sc. Parasitology & Entomology · [Nnamdi Azikiwe University](#) · Anambra, Nigeria *Sep 2018 – Apr 2023*

- ▶ Second Class Honours, Upper Division — 4.04/5.00 GPA. Developed rigorous analytical thinking and research discipline now applied to engineering problem-solving.

CERTIFICATIONS

Backend Software Developer Certification · ALX Africa, 2024

Introduction to Front-End Development · Coursera / Meta, 2023

Leadership as a Practice · Global Citizen Year Academy, 2021