

ALFRED OLUMIDE ADENIGBA

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[LinkedIn](#) · [GitHub](#) · [Portfolio](#)

PROFESSIONAL SUMMARY

Full Stack Software Engineer with nearly three years of hands-on experience building production-grade web, AI, fintech, and blockchain products. Designs modular APIs, secure authentication and payment workflows, cloud-deployed agents, and responsive interfaces using TypeScript, Rust, NestJS, Next.js, Node.js, PostgreSQL, Redis, and Docker. Strong in automated testing, system design, deployment, open-source collaboration, and end-to-end product ownership.

CORE TECHNICAL SKILLS

Languages: TypeScript, Rust, JavaScript, SQL, Solidity, Python, Cairo

Backend & Systems: NestJS, Node.js, Express, Axum, Tokio, SQLx, REST APIs, JWT, RBAC, background jobs

Frontend: Next.js, React, Tailwind CSS, TanStack Query, responsive UI, wallet integrations

Data & Infrastructure: PostgreSQL, MongoDB, Redis, MySQL, Docker, GitHub Actions, Vercel, Render

AI & Blockchain: LLM agents, RAG, MCP, Foundry, Hardhat, Viem, The Graph, Circle, x402, EVM, Starknet, Soroban

PROFESSIONAL EXPERIENCE

Independent Software Engineer | Freelance / Product Engineering

Sep 2023 – Present

Lagos, Nigeria / Remote

- Design and ship full-stack applications and backend services using NestJS, Next.js, TypeScript, Node.js, Rust, PostgreSQL, MongoDB, Redis, Docker, and cloud deployment platforms.
- Architect secure APIs and workflows with JWT/RBAC, validation, data modelling, caching, background processing, third-party integrations, and blockchain event handling.
- Build AI-agent, fintech, and payment systems combining LLM reasoning, RAG/MCP tools, wallet infrastructure, deterministic business rules, and human-in-the-loop orchestration.
- Contribute to various open-source platforms through pull requests, bug fixes, documentation improvements, and engineering collaboration; own requirements, implementation, tests, deployment, and demos.

Civil / Geotechnical Engineer | Trevi Foundations Nigeria Limited

Apr 2019 – Sep 2023

Lagos, Nigeria

- Designed deep-foundation and geotechnical solutions, prepared technical reports and tender inputs, and coordinated multidisciplinary teams on major infrastructure projects.
- Supported pile-testing and quality-assurance programmes, including pile load tests, pile integrity tests, and crosshole sonic logging, to verify foundation performance and construction quality.

SELECTED FULL-STACK PROJECTS

AfroMeet — Creator Monetisation & Autonomous Patron Platform | [GitHub](#) · [Live](#)

[NestJS](#) · [Next.js 16](#) · [TypeScript](#) · [Solidity](#) · [Circle](#) · [x402](#) · [Arc](#) · [PostgreSQL](#) · [IPFS](#) · [Claude](#)

Architected a live creator platform with USDC nanopayments, encrypted media delivery, NFT fractionalisation, DAO controls, and an autonomous patron agent. Delivered 12 Solidity contracts, 100 Foundry tests, 23 Jest backend tests, and eight verified Arc Testnet deployments.

FieldPilot — Offline-First Field Operations Platform | [GitHub](#)

[Next.js 16](#) · [NestJS 11](#) · [TypeScript](#) · [PostgreSQL/PostGIS](#) · [Redis](#) · [Prisma](#) · [BullMQ](#) · [MiniIO](#) · [Docker](#)

Architected an offline-first field-operations platform for construction, maintenance, and inspection teams, supporting work scheduling, crew management, digital forms, field evidence, defect tracking, and resilient data synchronisation. Implemented independently testable frontend and backend applications, background workers, object storage, OpenAPI contracts, observability, and end-to-end testing.

UrlChop — URL Shortener & Analytics Platform | [GitHub](#) · [Live](#)

[React](#) · [TypeScript](#) · [Node.js](#) · [Express](#) · [MongoDB](#) · [Redis](#) · [Jest](#) · [Swagger](#) · [Vercel](#) · [Render](#)

Developed and deployed a full-stack URL-shortening product with custom aliases, QR downloads, click analytics, origin tracking, Redis caching, MongoDB persistence, automated tests, and interactive API documentation.

Ares — Autonomous Smart-Contract Security Agent | [GitHub](#) · [Live](#)

[NestJS](#) · [Next.js](#) · [TypeScript](#) · [FastAPI](#) · [PostgreSQL](#) · [Docker](#) · [Slither](#) · [RAG](#) · [Mantle](#)

Built an event-driven security platform that detects bounties, analyses verified source or bytecode, merges static and LLM findings, submits reports on-chain, and triggers escrow payout. Backed the RAG pipeline with approximately 62,000 public audit findings.

RECOGNITION

Mantle COOK 03 — Second Place (Stablend) · Atrium Academy UHI7 Hookathon — Winner (LaunchGuard)

EDUCATION

Diploma in Backend Engineering, AltSchool Africa (2024) · B.Eng. Civil Engineering, University of Ilorin (2017)