

Aliu Salaudeen — Full-Stack & AI Engineer

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Full-Stack Engineer with 4+ years building production web applications and AI-powered systems. Experienced in shipping multi-agent architectures, LLM integrations, and full-stack features from frontend to deployment.

Skills

AI/ML Engineering: Vercel AI SDK, Google ADK, LangChain, Langfuse, Prompt Engineering, Multi-Agent Systems, LLM Evaluation

Frontend: Next.js, React.js, TypeScript, TailwindCSS, Framer Motion, Chakra UI, Zustand, Redux Toolkit

Backend & Infrastructure: NestJS, GraphQL, REST API Integration, Vercel Deployment, Docker

Languages: JavaScript, TypeScript, Python

Tooling: Git/GitHub, Regression Testing, A/B Testing

Work Experience

IQ — Software Engineer

April 2023 – Present | Remote

Project [AIDEN](#) — Crypto AI Assistant

- Sole owner of AIDEN v2 (a multi-agent crypto intelligence platform built on ADK) end-to-end, from architecture through deployment. Designed a hierarchical agent system where a workflow orchestrator routes intent across 5 specialised data sub-agents, with a query-rewriter agent resolving pronouns and abbreviations across multi-turn conversations.
- Built the entire v2 data layer: typed MCP provider wrappers for CoinGecko, DeBank (80+ endpoints), DeFiLlama, Etherscan, and IQ.AI, each with Zod input/output validation and proxy-based gateway routing. This gave the agent fault-isolated, swappable data sources without polluting agent logic with HTTP concerns.
- Designed v2's session and history layer, cutting per-session storage by 75% by implementing async event normalisation, mutex-based session locking, and per-user identity isolation across Telegram and the HTTP API.
- Led v1 inference migration from Gemini to GPT-4o/4.1-nano across 151 files, refactoring model abstraction, tool-selection framework, schema handling, and prompts. Shipped without production accuracy regression, validated by the regression harness.
- Built multilingual support (EN, KO, ZH, JA) with crypto-terminology preservation. Replaced LLM-based language detection with a deterministic Unicode-regex detector, cutting ~1.5–2s latency per request, wired through tool calls and the final-answer generator.
- Stood up regression testing infrastructure that gates all agent updates. It covers 70+ multi-language prompts in v1 and 30+ provider wrapper functions in v2 with automated output diffing and top-N accuracy targets, catching regressions before merge.

Project [IQ.wiki](#) — Knowledge Platform

- Shipped an events discovery feature in Next.js and GraphQL that lets users browse upcoming crypto and blockchain events and RSVP or follow them directly from wiki pages, increasing overall user engagement by 10% through iterative UI optimisation driven by user behaviour research.
- Built and launched IQGPT, a full-stack AI chatbot integrated into the wiki platform, lifting wiki page engagement by 20%, validated through A/B testing and user interaction analysis.
- Improved treasury dashboard performance by 20% by converting sequential API calls to parallel processing and eliminating redundant calls for static data, reducing load time without changing any backend infrastructure.
- Maintained and extended the broader platform: resolved complex markdown editor parsing bugs, implemented Telegram and Discord integrations with anti-spam handling, and rebuilt IQ.social in Next.js and React Query for improved load speed and maintainability.

[Growth and Development Asset Management Limited \(GDL\)](#)

Sep 2022 – Feb 2024 | Lagos, NG (Hybrid)

Front-End Engineer — Leading diversified financial institution in Nigeria

- Co-built (as one of two frontend engineers) the UI for GDL Housemoni, a rent financing web app serving customers directly as a cross-platform alternative to the native iOS and Android apps, handling real financial transactions for hundreds of users.
- Built an internal document management system to digitise previously paper-based processes, including approval workflows, e-signatures, and notifications, reducing manual overhead for internal staff across the organisation.
- Co-built a centralised admin dashboard used to manage and automate in-house workflows across 2–3 financial products, giving internal teams a single interface to operate across the product suite.
- Built the GDL website using Next.js with a full SEO setup (proper metadata, semantic HTML structure, and page architecture), resulting in a measurably more professional and indexable web presence.
- Built a content management dashboard for the GDL website, enabling non-technical staff to manage site content without engineering involvement.
- Optimised frontend performance across products by eliminating heavy static assets and reducing unnecessary file sizes, improving page load times for users on lower-bandwidth connections common in the Nigerian market.
- Collaborated closely with UI/UX designers to translate wireframes into production interfaces, validating with stakeholders before implementation to catch design issues early and avoid costly rework.

Intrapair

Apr 2022 – Apr 2023 | Abeokuta, NG (Remote)

Front-End Engineer — IT services and consulting startup

Project FlipCBT — Educational Assessment Platform

- Solely built the student-facing assessment platform: a timed, MCQ-based testing system with auto-grading and a results and analytics dashboard for teachers.

- Contributed to a multi-component system (assessment platform, admin app, onboarding) as one of two frontend engineers using Next.js and React.js with Redux, with a shared reusable component library and custom hooks across sub-apps.
- Built the Anyworks landing page as a web presence for an artisan-connecting mobile product (iOS and Android).

Personal Projects

AI Therapy Network (therapy-app-nine.vercel.app)

Multi-agent mental health support system built with ADK-ts

- Designed and built a 7-agent therapeutic system where a Master Therapist orchestration agent routes conversations to six specialists, covering mindfulness (Dr. Zen), CBT (Coach Sarah), crisis intervention (Guardian), mood tracking (Moody), creative therapy (Artemis), and peer support (Buddy).
- Solved key multi-agent challenges including full conversation history passing on every agent handoff to preserve context, and rule-based crisis detection in the Guardian agent to handle safety-critical intervention workflows.