

ISRAEL IYANDA

Full-stack AI Engineer · Lagos, Nigeria

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SUMMARY

Full-stack AI engineer with 5+ years of experience shipping production web products. For the last 3+ years I've worked at Tale (Switzerland), an open-source workspace where teams and AI agents work together. I build end to end: LLM and agent features (tool calling, model routing, RAG ingestion, human-approved drafting, prompt-injection defences), TypeScript backends (Convex, Postgres, workflow engines) and React frontends. I also designed and built Activ, a multi-platform SaaS for Nigerian gadget merchants.

WORK EXPERIENCE

Tale

Switzerland (Remote)

Software Engineer, AI / Full-stack

Apr 2023 – Present

Open-source AI workspace platform. Since the repo went public in Dec 2025: 463 merged commits, #4 all-time contributor.

- **Agents and LLM features:** built an "Auto" agent mode (Convex Agent and Vercel AI SDK) that routes each message to the best-fit agent with a cost-aware, timeout-bounded classifier and provider failover. Gave chat agents read tools to search tasks, projects, conversations and emailed attachments under row-level access rules. Shipped audio transcription and image (vision) attachments in chat, and fixed streaming and stop-generation reliability.
- **RAG and knowledge:** added an organization PII-policy gate before indexing. Moved file indexing onto workpools with upload prioritization. Built Google Drive and Microsoft 365 document import and sync, and indexed email attachments scoped to their conversations. Maintained the Python (Cognee) RAG service.
- **AI safety and human-in-the-loop:** wrapped all external tool, RAG and email content as untrusted data to defend against prompt injection. Built agent-drafted conversation replies stored as pending approvals, with model confidence and guideline version kept for audit, so nothing reaches a customer until a person sends it.
- **Workflow engine:** sharded workpools and workflows by execution ID to eliminate concurrency (OCC) contention, fixed execution buildup, and added automation templates, versioning and run retention and erasure.
- **Email and integrations:** built two-way IMAP/SMTP mailbox integration with sent-mail sync, multi-mailbox triage, and routing of conversations to teams or people. Added support for model-provider subscription accounts.
- **Security and governance:** moved query auth to JWT identity and de-duplicated row-level-security (RLS) auth lookups. Added audit-log integrity alerts, GDPR-style erasure with legal-hold checks, and session invalidation on password change.
- **Frontend:** React, TanStack Router/Query and Tailwind UI across chat, inbox, tasks, automations and settings, with mobile-responsive layouts, accessibility fixes and EN/DE/FR i18n.
- Built and maintained AI-powered interfaces for autonomous enterprise AI platforms across 5+ client deployments. Partnered with designers and backend developers to integrate 25+ autonomous AI APIs, cutting integration time by 40%.
- Optimized CI/CD pipelines for AI deployments, speeding feature delivery by 50% and cutting deployment failures by 85%. Improved workflow and task interfaces, raising response times by 20% and system performance scores by 25% while handling 5K+ daily autonomous tasks. Added custom query components that increased user retention by 35%.

Activ

Lagos, Nigeria

Founder & Engineer

2024 – Present · activ.ng

Sales, inventory, receipts and customer management for phone and gadget vendors. Web PWA plus an Expo mobile app.

- Designed, built and shipped the product end to end, from data model to deployment, on a single Convex backend shared by a React 19 / TanStack Start PWA and an Expo (React Native) mobile app.
- Built IMEI and barcode capture (Barcode Detector API with a ZXing WebAssembly fallback), device lookups, multi-tenant workspaces with role-based staff access, receipts and invoices (PDF, email and WhatsApp delivery) and Paystack subscriptions.
- Building a WhatsApp customer inbox where LLM-drafted replies are scored and held for human approval, plus an online storefront.
- Stack: TypeScript, Convex, Better Auth, Zod, Tailwind, Resend/React Email, WhatsApp Cloud API, PostHog, Cloudflare Pages, EAS. Tested with Vitest, Playwright and Storybook, with CI/CD on GitHub Actions.

Capital Placement

Sri Lanka

Front-end Developer

Oct 2022 – Feb 2023

- Created data-visualization tools for real-time, data-driven hiring, cutting decision-making time, working with UX/UI designers and backend developers.

- Built interview scheduling and video-recording UI components to streamline the hiring process.
- Architected extensible front-end solutions with React, TypeScript and REST APIs.
- Reworked client onboarding, boosting user engagement by 20% and reducing drop-offs. Shipped scalable front-end improvements that raised performance by 25%.

CodeAlgo

Kansas, USA

Front-end Developer

Aug 2021 – Aug 2022

- Built and maintained responsive interfaces with React and Next.js, ensuring cross-browser compatibility. Ran code reviews and supported the CI/CD pipeline.
- Integrated modern and legacy systems with backend engineers, delivering a fast-loading MVP within six months.
- Built marketing and email UI components for launch, boosting task progress by 50%.
- Set front-end code-quality criteria with the tech lead, reducing post-launch defects by 20%.

OPEN SOURCE

- **clude-mcp**: self-hosted Model Context Protocol server that gives AI agents persistent memory across tools, using hybrid recall (vector + BM25 + knowledge graph). TypeScript, MCP SDK, Anthropic SDK, Supabase.
- **Sitch**: self-improving communication harness: an LLM layer that adapts how an app communicates with its audience over time. Next.js, TypeScript, Groq.

SKILLS

- **AI / LLM**: agent design, tool calling, model routing and failover, RAG ingestion and retrieval, embeddings, prompt-injection defence, human-in-the-loop approvals, MCP, Vercel AI SDK, Convex Agent, OpenAI and Anthropic APIs
- **Backend**: TypeScript, Node.js, Convex, PostgreSQL, Python, REST APIs, webhooks, workflow engines, RLS and auth (Better Auth, JWT), IMAP/SMTP
- **Frontend and mobile**: React, Next.js, TanStack Start/Router/Query, Tailwind CSS, Radix/shadcn, React Native / Expo, PWA, accessibility, i18n
- **Infra and quality**: Docker, GitHub Actions, Cloudflare, Vercel, Sentry, PostHog, Vitest, Playwright, Jest, Storybook

EDUCATION

B.Sc. Molecular Genetics, University of Lagos · 2018 – 2023