

MCJETHRO KALU

Full-Stack Software Engineer — React · Next.js · TypeScript

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SUMMARY

Full-stack software engineer with 2+ years building and shipping production web applications for international clients. Sole frontend developer and a core backend contributor on an AI-powered SaaS platform, delivering features end-to-end across UI, APIs, data, and cloud infrastructure in React, Next.js, TypeScript, and AWS. Strong in product delivery, AI/LLM integration, and turning complex requirements into polished, business-critical systems.

SKILLS

Core stack: TypeScript · React · Next.js · Node.js · PostgreSQL · AWS · AI/LLM integration

Frontend: JavaScript, HTML, CSS · Tailwind CSS · Redux Toolkit · TanStack Query/Table · responsive & accessible UI

Backend & data: Next.js API routes / server actions · REST APIs · Drizzle & Prisma ORM · PostgreSQL (Neon), Turso/LibSQL, MongoDB, Supabase, Firebase · background jobs (Trigger.dev)

Cloud & AI: AWS (Lambda, DynamoDB, S3, SQS, API Gateway, Cognito) · Vercel · Cloudflare R2 · Stripe, Paystack · CI/CD (GitHub Actions) · Vercel AI SDK (OpenAI, Anthropic, Gemini) · real-time streaming (SSE/WebSockets)

EXPERIENCE

Full-Stack Engineer — SEO Content AI · Remote (US agency)

Dec 2023 – Present

- Full-stack engineer on a 20-person team building an AI-powered SEO content-generation SaaS — the sole frontend developer and a core backend contributor, owning features end-to-end across UI, APIs, data, and cloud infrastructure.
- Built a production platform spanning 60+ API endpoints, a 26-table database (Drizzle ORM), and 8 background-job pipelines, integrating multi-provider AI (OpenAI, Anthropic, Gemini) for real-time streaming of text and image generation.
- Cut average article-generation time from ~4 minutes to ~90 seconds (~60% faster) through prompt and pipeline optimisation, with no loss in quality.
- Shipped Stripe-powered billing, usage-tracking dashboards, and one-click WordPress/CMS publishing; engineered an AI “site builder” that generates full websites from a single prompt, backed by AWS (Lambda, SQS, DynamoDB) with real-time WebSocket streaming.

Software Instructor & Full-Stack Developer — NCAIR (NITDA) · Abuja

June 2025 – Present

- Built the frontend of NHAOP (National Human–AI Operations Platform), a full-stack data-collection and annotation tool (Next.js/React + FastAPI) now used across NCAIR to build first-party Nigerian AI datasets.
- Teach Python and product development to monthly cohorts of 80–150 students as a Google-certified instructor under NCAIR’s partnership with Google.
- Retained as contract staff after national service — selected on performance.

SELECTED PROJECTS

CreativeOS — Full-stack SaaS for creative professionals · Next.js, TypeScript, Drizzle, Neon Postgres, Paystack

Multi-tenant platform managing the full client workflow (proposal → approval → invoice → payment) with a no-login, WhatsApp-first client-approval flow (legal audit trail) and naira/VAT/TIN-ready invoicing.

Enterprise Waste-Operations Platform — for a US environmental-services company (ongoing contract, under NDA) ·

Next.js, TypeScript, AG Grid, AWS Cognito/Amplify

Built and actively maintain a role-based operations platform that replaced fragmented Excel workflows — bulk shipment entry (paste/CSV import), a custom report builder with one-click PDF/Excel/PowerPoint export, and cost/logistics/emissions analytics dashboards — shipping new features on an ongoing client contract.

JobRun — AI job-search platform with browser extension · Next.js, Vercel AI SDK, Trigger.dev, Neon

Sources and scores job listings, builds a structured profile from a user’s CV, and generates tailored CVs, cover letters, and interview prep; a companion Chrome extension autofills applications.

EDUCATION

B.Eng, Mechatronics Engineering — Federal University of Technology, Minna

2018 – 2025

Final-year project: AI-powered crowd-density estimation & adaptive PA volume control (Python, CNN/VGG16; MAE ≈ 3).

Prior: embedded systems & robotics engineering internship, NCAIR (NITDA) — Arduino/ESP32, PCB design, 3D printing.

CERTIFICATIONS & AFFILIATIONS

Google-certified Instructor (NCAIR–Google partnership) · Graduate Member, Nigerian Society of Engineers (NSE)

References available on request.