

JAMES ZOKAH

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SUMMARY

Full stack engineer (TypeScript, React, Next.js, Node.js, Rust, Python) who builds and ships production AI products end to end: LLM agents, RAG pipelines and generation platforms, not prompt wrappers. Shipped Agentic Realty, a live WhatsApp AI agent platform on Claude API with 15 production workflows and the reliability engineering to match. Founder of Creelo (creelo.app), the creative OS for cinematic AI filmmaking, taken solo from a blank repo to a live product with multi model generation, a full timeline editor, credit metering and its own MCP server. Currently leads the frontend team at ShaQ Express and holds a concurrent full stack contract with Ghana's Ministry of Foreign Affairs. Ships with Cursor and Claude Code daily, owns the architecture, and reviews every line. Based in Accra, open to on site and remote work.

SKILLS

- **Languages:** TypeScript, JavaScript, Python, Rust, Dart, SQL
- **Frontend:** React, Next.js (App Router, RSC), React Native, Tailwind CSS, Flutter, Figma to component workflows
- **Backend:** Node.js, Rust, REST API design, route handlers and server actions, background job orchestration
- **Data:** PostgreSQL (schema design, indexing, migrations), SQL, vector stores, relational and document modelling
- **AI:** RAG pipelines (chunking, embeddings, vector search, retrieval ranking), LLM API integration, tool calling and multi agent handoffs, agent workflow runtimes, generation orchestration and credit metering, prompt engineering, MCP (Model Context Protocol) servers and MCP-UI, ElevenLabs TTS / voice cloning / dubbing, AssemblyAI STT
- **AI-assisted development:** Cursor, Claude Code, GitHub Copilot, used daily for scaffolding, refactors, migration sweeps and review
- **Auth and payments:** self hosted auth with Better Auth (sessions, providers and account model owned in house, no third party identity vendor); Stripe, Paystack, Creem, Polar
- **Delivery:** Docker, Git, Vercel, Google Play Store releases

AI PRODUCTS AND SYSTEMS

Agentic Realty, Production WhatsApp AI Agent Platform

agenticrealty.co

- Built a live AI agent platform that runs a real estate agency's WhatsApp line 24/7 in English, Twi and Pidgin. The agent, Ama, qualifies leads, matches them against real inventory, sends property photos, books viewings through Google Calendar and runs day 3, 7, 14 and 30 follow ups, while agency staff drive it from a Telegram control plane by voice command.
- Engineered the agent on Claude API reasoning with an 86,000 character persona prompt refined over 100+ iterations, and Groq Whisper for voice note transcription. Anti fabrication is enforced as a product rule: Ama will not invent a listing, and every price negotiation escalates to a human within an SLA that re alerts at 2, 4 and 6 hours.
- Shipped 15 production n8n workflows over Twenty CRM (GraphQL only) and two deliberately separated PostgreSQL instances, with Redis conversation locking (60 second TTL, Lua heartbeat, compare and set release) and debounce so a burst of five messages in ten seconds produces one reply instead of racing ones.
- Built the reliability layer: one shared send workflow that enforces WhatsApp's 24 hour window and switches to approved templates outside it, voucher scripts that exercise every external API before deploy, idempotent writes with read back assertions, append only migrations, and error branches in all 15 workflows writing to an errors table so nothing fails silently. Deployed on AWS with Docker Compose and Nginx.
- Ran the repository itself as a Claude Code harness with seven specialised subagents (architect, workflow builder, schema designer, tester, code reviewer, doc gardener, researcher) and architecture decision records, under a standing rule that nothing ships until the tester agent signs off green.

Creelo, The Creative OS for Cinematic AI Filmmaking (Founder)

creelo.app

- Founded and built Creelo solo from an empty repository to a live product: a generation first Director Studio and a full timeline Editor in one workspace, so a creator goes from a text prompt to a finished, on brand film or motion graphics piece without leaving the tool.
- Director Studio runs on a multi model generation engine (Seedance 2 for video, ElevenLabs Flash for voice, plus image and music models), with @image / @video / @audio reference chips for grounding prompts, and a voice panel covering voice over, cloning, voice change and translation so characters keep one voice across shots and a film ships in multiple languages.
- Editor is a real non linear editor, not a preview: multi track timeline (video, text, camera and rig layers), keyframe and graph editing, a 3D transform panel and orbit, pan and dolly camera controls.
- Exposed Creelo over MCP, so any MCP compatible agent can drive generation, timeline assembly, rendering and publishing. It is a programmable video backend for other AI products, not only a web app.
- Architected the Node.js orchestration backend: long running generation jobs across multiple providers with retry and partial failure semantics, a reusable voice library, and credit based metering that prices every generation before it runs and bills against user balance. Auth is self hosted with Better Auth in my own Postgres schema, and payments run on multiple rails (Stripe, Payoutstack) serving international and African customers from one codebase.

Kysoo, No-Code Voice Agent Builder

kysoo.vercel.app

- Built a visual, node based canvas (Start, Voice Agent, Tool, End) where non technical users compose production voice agents by dragging, wiring and configuring nodes, then ship them as an embeddable widget through a single script tag on any site.
- Each Voice Agent node carries its own model configuration (provider, model, key), voice and STT settings, and a tool list. Tool nodes are full HTTP request definitions: method, templated URL params, custom headers, and JSON or form bodies, so an agent can call any REST API mid conversation.
- Implemented multi agent handoff (a customer service agent transfers to tech support and routes back, entirely through tool calls) a live preview harness that validates the graph compiles and runs the agent over voice or text, and a release pipeline with versioned deploy history for rollback on top of a stable runtime schema (AgentState / WorkflowConfig) that the free form canvas compiles down to.

Alda, Retrieval Augmented Generation System

github.com/jameszokah/alda

- Built a complete RAG pipeline from scratch: ingestion, preprocessing, chunking, embedding generation, vector storage, semantic retrieval and context injection, with chunking and ranking tuned against real queries to cut hallucinations. Built to work the failure modes directly: context window pressure, bad chunk boundaries, and retrieval that returns plausible but wrong passages.

WORK EXPERIENCE

Frontend Lead / Full Stack Engineer, ShaQ Express (ShaQ App) · Accra, Ghana

Aug 2024 - Present

- Led the frontend team building Shaq App Web (React + Next.js), a nationwide super app for food, groceries and pharmacy ordering, increasing conversion rates by 35%. Set the standards, ran code review, and unblocked junior engineers.
- Designed and shipped real time passport and package tracking applications, improving delivery transparency by 85% and reducing customer service inquiries by 60%.
- Implemented a third party logistics (3PL) management system with external partner API integrations, boosting delivery capacity by 55% and reducing delivery times by 25%.
- Built the internal operations dashboard (riders, end to end delivery) and the Admin Dashboard (vendors, shops, users, orders), cutting operational bottlenecks by 40% and vendor onboarding from 3 days to under 6 hours.

Full Stack Engineer (Contract), Ministry of Foreign Affairs (MFA) Ghana

May 2025 - Present

- Sole engineer on a real time interactive dashboard tracking passport deliveries nationwide, reducing delivery delays by 30% through proactive monitoring and route optimization.
- Turned vague direction from non technical government stakeholders into a shipped system, including the analytical charts they now run daily operations from.

Full Stack Engineer (React Native + Next.js), Success Life · Accra, Ghana

Mar 2025 - Aug 2025

- Built the Success Life mobile app (React Native) delivering educational content to a global audience, increasing daily active user engagement by 70%.
- Developed an interactive Next.js admin dashboard for video courses, podcasts and devotionals, cutting content publishing time from 48 hours to under 4 hours, added social features that drove a 50% rise in content interaction in the first 3 months, and published to the Google Play Store.

EDUCATION

University of Ghana, BSc Computer Science

Teaching Assistant, Python Programming. Selected as TA for one of the university's most in demand Python courses, mentoring hundreds of students through tutorials, workshops and one on one code review.