

Chidera Okosa

Software Engineer · AI-Native Product Development

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Backend-leaning full-stack engineer who takes products from discovery to app-store release to production monitoring **as sole developer**. Six have shipped for clients in the US and Canada, including a cattle-feedlot platform live on iOS and Android that runs a commercial Kansas operation day to day. Deep PostgreSQL schema and query work on financially load-bearing systems where a rounding error is a wrong invoice, so tests, CI gates and monitoring are defaults rather than follow-up work.

SELECTED WORK

CattleLogic · Feedlot Operating System

iOS · Android · Web

Sole developer · Meridian Cattle, Kansas · [cattlelogicapp.com](#) · [case study](#)

Full-lifecycle platform for US cattle feedlots, covering intake, feed, health, inventory, risk management and invoicing, built to work with no cell signal. Live in both app stores, and it runs day-to-day operations at a commercial Kansas feedlot.

Offline-first architecture designed from the first commit. SQLite cache, queued operations with deduplication, temporary-ID resolution so offline records can reference each other, and field-level conflict detection offering keep-local, use-server or decide-later, which never silently overwrites. A pen rider records a full day of treatments in a dead zone and the queue reconciles on the drive back.

19 Django apps, 345 migrations, 40+ models, one source of financial truth. Authored **68 documented formulas** in a single reference, each mapped to the file and line implementing it, so cost-per-pound reporting, customer invoices and inventory pricing read one shared set of records instead of drifting apart. Stock depletes oldest-batch-first (FIFO), so displayed cost reflects what the next unit actually costs. Cattle in one pen are often co-owned at differing percentages, so one aggregation service produces per-owner invoices split by ownership share across partial shipments. That let the operation take on customers it had been turning away.

Commodity futures market data integration (Databento): ingests daily exchange settlement prices and tracks hedging positions (futures, options and federal livestock insurance) with live profit-and-loss valuation. Diagnosed prices silently reading two days stale. Settlements publish 7 PM US Central, which is after midnight UTC, so a naive date boundary discarded the newest one. The fault had sat for months underneath every hedging number the product showed.

Reliability engineering: 305 backend test files; a CI gate that replays PR migrations against a committed production schema baseline and blocks destructive operations lacking explicit justification; post-deploy smoke tests that gate auto-rollback; Sentry cron monitoring on all 11 Celery beat tasks.

Outcome: the first cattle group managed end-to-end in the platform needed **4.99 lb of feed per pound of weight gained**, against the operation's running average of 5.92 across 1,096 animals. On the operator's own arithmetic that is roughly **\$45 less feed cost per animal**, and average daily weight gain rose from 3.71 to 4.39 lb. The operator credits better records and daily visibility rather than the software alone.

Stack: Django 5.2 · Django REST Framework · React Native 0.76 · Expo 52 · PostgreSQL · SQLite · Celery · Redis · Databento · Stripe · Heroku · Sentry · FCM/APNS · EAS Update

Track & Field Dreams · Athlete Recruitment Platform

Web

Sole developer · Sports DMV, Maryland · [tfdreams.com](#) · [case study](#)

Inverts recruiting from search to push: the platform sends verified athlete performances straight to college coaches once they meet conference championship standards.

Automated matching engine scores athletes against conference standards by event, gender and division, where Rank 1 is a 100% match scaling down to 70% at Rank 24, across 30+ track and field events with coach-verified, screenshot-backed results.

13 Django apps, 40+ models, 20+ composite indexes tuned for high-speed ranking queries. Integrated two federal data sources: NCES (27,000+ high schools) and College Scorecard (6,400+ colleges).

COPPA-compliant age-aware permissions modeled as an explicit state machine (under-13 → 18+). It handles edge cases such as message threads already active when an athlete ages up, plus verification cascades that revert every athlete verified by a banned coach.

Stripe subscriptions across 11 webhook event types with strict idempotency, using `billing_reason` flags to distinguish initial subscriptions, renewals, and plan changes. Cut athlete cost of entry from \$2,000+/year to a \$24 fee, subsidised by coach subscriptions.

Stack: Django 5.2 · Python 3.13 · PostgreSQL · Stripe · Celery · Playwright · TailwindCSS · NCES API · College Scorecard API

Also shipped as sole developer: **BeHope** (nonprofit) · **SoloPoolD** (travel & hospitality) · **AutoPulse** (dealership analytics) · **Settlin** (immigrant services; LLM chatbot and translation) · **JOGG AI** (GPT-based fitness programming, 8,000+ users).

AI-NATIVE ENGINEERING PRACTICE

Wrote the tooling. Author reusable Claude Code skills that generate, edit and test code under fixed constraints. Notably **qa-memory-bank**, a persistent QA harness where issue state lives in the filesystem (open → ready-for-retest → verified-fixed) with retest-first ordering and an append-only log, so a QA pass resumes cleanly days later; and **Fable**, an orchestrator mode that plans and audits while sub-agents execute. Published at github.com/ok-dera.

The model works inside guardrails. Projects start from a dependency list vetted in production before LLMs existed, so the model composes libraries with known failure modes rather than picking plausibly. MCP servers connect it to real systems; test suites and CI gates decide what merges, not the model's confidence.

Human in the loop where it counts. AI accelerates scaffolding, refactors and coverage; architecture, schema design and financial correctness stay with me. The 68-formula reference and CI migration gate above exist for that reason: plausible output nobody had checked against a number they already knew.

EXPERIENCE

Benmore Technologies

Feb 2024 – Present

Technical Consultant (May 2025 – Present) · Developer Team Lead (Jan – May 2025) · Full Stack Engineer (Feb 2024 – Jan 2025), promoted twice in 18 months

Sole developer on six client products end-to-end: discovery, architecture, implementation, app-store release and production monitoring, for clients across Kansas, Maryland, Toronto, San Diego, Lexington KY and Arlington VA. Worked directly with domain operators rather than through a product layer, and learned each trade well enough to argue about a formula's denominator with the client.

Led technical discovery: competitive and feasibility research, user journeys, prototypes, then architecture documentation, which narrowed broad client visions into shippable MVPs. On one engagement, distilled a social network plus marketplace request down to the matching core that made the product viable.

Mentored a cross-functional team of 12 developers as Team Lead. Delivered 8+ projects on schedule and set the review standards and technical documentation practice.

Integrated 15+ third-party APIs and services across client projects: Stripe, Paystack, Paga, Flutterwave, Databento, NCES, College Scorecard, OpenAI, Anthropic, Google APIs, FCM/APNS.

Metrosoft Limited · Backend Developer, Intern

Mar – Sep 2022

RESTful APIs and real-time WebSocket communication via Django Channels; resolved 50+ code issues in production backend code.

InternHub Africa · Full Stack Developer, Intern

Jul – Nov 2021

Relational schema design, automated testing, and note-keeping and e-commerce applications in JavaScript, Python, React, and Django.

TECHNICAL SKILLS

Languages Python, JavaScript / TypeScript, SQL

Backend Django 5.2, Django REST Framework, Celery, Redis, Django Channels, SimpleJWT, Scrapy

Databases PostgreSQL, SQLite: schema design, 345+ migrations shipped, composite indexing, FIFO and multi-module aggregation query design, migration safety gating

Mobile React Native 0.76, Expo 52, Expo Router, offline-first sync and conflict resolution, EAS Update, FCM / APNS

Frontend React, TailwindCSS, Alpine.js, HTMX, Bootstrap

AI / LLM OpenAI, Anthropic Claude, Gemini, Ollama: shipped product features (conversational agents, translation, generative programming) and AI-assisted delivery workflows

Testing & Ops Django/pytest suites at scale (305 files on one service), Playwright, CI migration gating, post-deploy smoke tests with auto-rollback, Sentry error and cron monitoring

Payments Stripe (subscriptions, 11-event webhook idempotency), Paystack, Paga, Flutterwave

Infrastructure Heroku, DigitalOcean, AWS S3, Cloudinary, Databento (commodity futures market data)

EDUCATION

B.Tech, Computer Science · Federal University of Technology, Owerri

Aug 2023