David Inyang

Software Engineer

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PROFILE

Software engineer and team lead with three years of delivering complete products, from the data model to the app in a user's hand. I led the team behind **IbomTax**, the state tax portal that now serves **34,200 registered taxpayers** and has collected **₦31.77bn**, and I single-handedly built **EthnoLingo**, including a speech scorer for tone languages that mainstream tools can't handle. I do my best work where reliability matters: payments, people's data and users on slow networks.

EXPERIENCE

Technology Partner · Nuk Integrated P & P Ltd — 2025 – present

- Own **EthnoLingo** from product decisions to production as the company's technology partner. It's a language-learning platform for Ibibio, Annang and Oron that preserves local culture a few minutes a day.
- Built all five parts of the system: a React Native (Expo) Android app, a Node.js/Express API, a Next.js admin panel and website, and a Python (FastAPI) speech-scoring service.
- Created a pronunciation scorer for tone languages that mainstream speech recognition doesn't support. It compares a learner's speech sounds with a native speaker's recording using a wav2vec2 phoneme model, checks pitch separately for tone, and calibrates scores per word.
- Designed the app for unreliable connections, with offline caching, audio prefetching and queued lesson sync. The API keeps serving in a reduced mode if Redis fails, and load tests put it at about 800 active learners per server.
- Run production on Railway and Vercel, with logs, metrics and traces in Grafana Cloud. Staff accounts on the admin panel require two-factor sign-in.

Team Lead · Myke Consult — 2023 – present

- Lead the software team at a finance and strategy consultancy with offices in Uyo and Lagos and partners including Wema Bank and AKIRS. I keep delivery on track and set the quality bar for the firm's client and in-house products.
- Built most of the interface of **mykeconsult.com**, including the navigation and mobile menu, hero, track-record stats, partner strip, call to action and footer. Each section is a content-driven component in Next.js, TypeScript and Tailwind CSS.
- Presented the firm's four business arms as one brand, with every page leading visitors to a consultation.

Freelance Software Engineer · Independent — 2025 – present

- Take businesses from idea to live product, handling scoping, design, build and launch, and staying on after go-live as one accountable engineer.

SELECTED PROJECTS

IbomTax · Team Lead — 2025 · ibomtax.net

Online tax portal for the Akwa Ibom State Internal Revenue Service · Next.js, Node.js, MongoDB

- Led the team that moved a state's tax payments online, replacing bank queues with remittance from home and a receipt in under six minutes.
- The portal now serves **34,200 registered taxpayers** and has collected **₦31.77bn in tax payments**.
- Was the team's main contact with the third-party providers behind identity checks and payments, from integration through to go-live.
- Secured most of the administrative side and built parts of the frontend.

EthnoLingo · Sole engineer — 2026 · ethnolingo.net

Language learning for Ibibio, Annang and Oron · React Native, Node.js, MongoDB, Redis, Python

- Built to preserve local languages and culture, with a few minutes of practice a day. Features include lessons, quizzes, pronunciation scoring, streaks, rewards and a leaderboard.

SKILLS

Languages	TypeScript, JavaScript, Python
Frontend	React, Next.js, React Native (Expo), Tailwind CSS, Redux
Backend	Node.js, Express, MongoDB, Redis, BullMQ, FastAPI, REST APIs
Infrastructure	Docker, Railway, Vercel, Grafana, Prometheus, OpenTelemetry
AI / ML	Speech models (wav2vec2), audio processing; daily use of AI coding tools
Leadership	Team leadership, working with third-party vendors, security of admin systems