

ISRAEL CHIDERA EDEH

Software Engineer | AI Engineering | Python, FastAPI, LLMs, RAG | TypeScript, React, Next.js, C#/.NET
Lagos, Nigeria (WAT, UTC+1), open to remote roles | israelchidera54@gmail.com | +234 814 626 5074
linkedin.com/in/israel-chidera-97bbab89 | github.com/IsraelChidera | israelchidera.netlify.app

PROFESSIONAL SUMMARY

Software engineer with 5+ years of experience building and maintaining production web applications and business systems, now focused on AI engineering. Builds LLM-powered services in Python and FastAPI, including retrieval-augmented generation (RAG), embeddings-based search and resilient model-provider integration. At Deloitte & Touche, leads development of the web application for an enterprise payroll platform that cut payroll processing time by 35%, and built AI document extraction with Azure Document Intelligence that reduced manual data entry by 60%. Brings a full-stack foundation in TypeScript, React, Next.js, C#/.NET Core, SQL Server and Node.js, from booking, payment and logistics platforms to a vendor management system. Pursuing a Master of Technology and preparing for the AWS Certified AI Practitioner exam.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript (ES6+), C#, SQL, HTML, CSS

AI Engineering: Document AI with Azure Document Intelligence (production); LLM integration with the Google Gemini API, retrieval-augmented generation (RAG), embeddings and semantic search, prompt engineering, FastAPI, Pydantic (personal projects)

Backend & APIs: C#/.NET Core, ASP.NET Core, Entity Framework Core, Node.js, Express.js, REST APIs, GraphQL, WebSockets, payment APIs (Paystack, Monnify)

Frontend: React, Next.js (SSR/SSG), Redux Toolkit, RTK Query, React Query, Zustand, Zod, Tailwind CSS

Databases: SQL Server, MongoDB, Firebase/Firestore, Supabase

Cloud & Tools: Microsoft Azure, AWS (S3, IAM), Vercel, Netlify, Git/GitHub, CI/CD

Testing & Practices: pytest, Jest, API design, code review, performance optimisation (Core Web Vitals), WCAG 2.1 accessibility, Agile/Scrum

Currently developing: Vector databases (pgvector), LLM evaluation, agents and tool calling, AWS AI services (AIF-C01 preparation)

PROFESSIONAL EXPERIENCE

Software Engineer, Deloitte & Touche

Feb 2025 – Present

Lagos, Nigeria (Hybrid)

- Lead development of the web application for Neptune, an enterprise payroll platform for the Tax & GES department, and maintain it in production; the platform reduced payroll processing time by 35%.
- Built AI-powered document extraction with Azure Document Intelligence (OCR), automating payroll data capture and reducing manual data entry by 60%.
- Integrate Next.js applications with Node.js/Express and ASP.NET APIs, working with backend engineers on API contracts, data flow, and error handling.
- Improved application load performance by 25% (Largest Contentful Paint) through server-side rendering, caching, code splitting, and lazy loading.
- Led accessibility improvements against WCAG 2.1 guidelines; take part in code reviews and maintain technical documentation.

Software Engineer, T40 Technologies

Apr 2024 – Nov 2024

Remote | Software for Nigerian intercity transport operators (Intercity NG)

- Built a reusable, white-label booking website template for transport operators in Next.js with online ticket purchase, real-time seat availability, and schedule management; adopted by two operators and associated with a 40% increase in booking conversions.
- Integrated Paystack and Monnify payment APIs with a Laravel backend to support online ticket checkout.
- Implemented React Query and WebSockets to keep seat availability and booking data current without manual refreshes.
- Single-handedly built the charter booking feature for Intercity NG, letting customers request and book chartered vehicles online.

- Developed the Intercity NG consumer booking web app and the T40 corporate website, applying SSR, caching, technical SEO, and analytics tracking.

Software Engineer, Najec Limited

Oct 2023 – Mar 2024

Hybrid

- Led development of the web application for an enterprise on-street parking management system, including admin dashboards for operational monitoring.
- Designed and launched the company website with technical SEO and performance optimisation, increasing organic traffic to the landing page by 70%.

Software Engineer, Tenece Professional Services

Jan 2021 – Sep 2023

Hybrid

- Developed a Vendor Management System, the team's major project, using C#, ASP.NET Core, Entity Framework Core, and SQL Server.
- Implemented application features and data access with Entity Framework Core over SQL Server, delivering backend and business logic for vendor management workflows.

SELECTED PROJECTS

AI Gateway API | github.com/IsraelChidera/AI-Gateway-API | Python, FastAPI, Pydantic, Google Gemini API, pytest, Docker

- Built a FastAPI service for LLM chat and retrieval-augmented Q&A behind a provider-agnostic interface, with Gemini and offline mock providers; every response reports token usage and latency.
- Implemented RAG endpoints: overlapping chunking, batched Gemini embeddings, cosine-similarity top-k retrieval and source-cited answers, with a relevance threshold that returns “not found” without calling the model.
- Implemented resilience patterns shared by all provider calls: timeouts, retries with exponential backoff and jitter on 429 and 5xx errors, and typed errors mapped to 504, 503 and 429 responses; covered by 44 pytest tests.

Neptune Payroll Platform (internal, Deloitte & Touche) | Azure Document Intelligence, Next.js, TypeScript, Node.js/Express, ASP.NET APIs

- Designed a document AI intake flow in which payroll documents are processed by Azure Document Intelligence and extracted data is surfaced in the application, replacing manual data entry.
- Led development of the web application for an internal payroll system serving the Tax & GES department, from application architecture to backend API integration, and own its ongoing maintenance.

WeRunAm | werunam.com | Founder and engineer | Next.js, Firebase, RTK Query, Paystack

- Founded and built the web platform for a Lagos errands, market-sourcing, and logistics service, with request flows for market runs, errands, airport item recovery, and import and export shipments.
- Designed a quote-then-pay customer flow for a low-trust market: itemised quotes before payment, Paystack checkout, photo and video updates before dispatch, and a defined dispute and refund process.

EDUCATION

Master of Technology (M.Tech.), Miva Open University

May 2026 – Expected May 2027

In progress

B.Sc., Microbiology/Biochemistry, University of Nigeria, Nsukka

2019

Enugu, Nigeria

CERTIFICATIONS

- AWS Certified AI Practitioner (AIF-C01), Amazon Web Services | In preparation, exam planned January 2027
- React Learning Program, Andela | Completed Oct 2023

TECHNICAL WRITING & COMMUNITY

- Author, freeCodeCamp News: published tutorials including protecting routes in Next.js and Firebase Authentication in React (freecodecamp.org/news/author/israelchidera).
- Mentor, Uptick Talent Africa: mentor aspiring software engineers within a community of 500+ tech professionals.