

MOSES CHIDERA OKONKWO

Full-Stack Software Engineer

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SUMMARY

Full-stack software engineer with experience building production systems across client projects, open-source work, and internships. I've worked on distributed backends, LLM integrations, database architecture, and real-time systems — mostly in TypeScript and Python. I care about type safety, reliable APIs, and shipping things that hold up under real usage.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL, C++, Solidity, Cairo

Frontend: React, Next.js (App Router), Tailwind CSS, HTML/CSS

Backend: Node.js, Express.js, FastAPI, Hono, REST APIs, WebSockets

AI & LLM: LLM integration (OpenAI, OpenRouter, LiteLLM), Mastra AI agents, prompt engineering, AI workflow automation

Databases: PostgreSQL, MongoDB, Prisma, Mongoose, Redis (Upstash), Firestore

Cloud & DevOps: Vercel, Fly.io, Google Cloud Run, AWS (S3, RDS, Rekognition), Docker, GitHub Actions

Tools & Libraries: Stripe API, Mux Video, Socket.io, BullMQ, Cloudinary, Jest, Vitest, Supertest, Zod

Web3 & Blockchain: Solidity, Cairo, Starknet, smart contract development, Ethereum ecosystem

WORK EXPERIENCE

Lead Backend Engineer | UenoLabs

Dec 2025 – Present

- Building MyFred, a biometric attendance and course management system deployed on Google Cloud Run.
- Migrated the core database from Firestore (NoSQL) to PostgreSQL on AWS RDS using Prisma, improving query flexibility and relational data integrity.
- Integrated AWS Rekognition for facial matching and liveness detection in the attendance flow.
- Maintained a test suite of 100+ unit and integration tests using Jest and Supertest to catch regressions before deployment.

Backend Engineer | OpenSource Nest

Jan 2026 – Apr 2026

- Built the registration API for the Takeoff event campaign using Express, TypeScript, and Zod for input validation.
- Handled automated email notifications via Nodemailer for registration confirmations and check-ins.
- Wrote integration tests with Vitest and Supertest; used PostgreSQL unique constraints to prevent duplicate registrations.

Full-Stack Developer | TugOnn (Switzerland)

2025 – Present

- Contributing to the backend of a student web platform within a 13-person distributed team.
- Worked with Node.js, Express, and MongoDB via Mongoose; added Socket.io for real-time features.
- Integrated Cloudinary for media uploads and retrieval.

Full-Stack Developer Intern (SIWES) | Bitxbase Technology

Jun – Nov 2025

- Built web application features using Python (FastAPI) and TypeScript across frontend and backend.
- Wrote API documentation, participated in code reviews, and debugged issues in an Agile team environment.

FELLOWSHIPS

Software Engineering Fellow | Dev Weekends Fellowship

Jun 2026 – Present

- Currently on the Fullstack AI Engineer track — a competitive engineering fellowship focused on building and shipping production-grade systems.
- Learyn: Built a full LMS with Next.js 15, PostgreSQL, Prisma, Mux for video streaming, and Stripe for payments. Solved a ghost enrollment bug by making Stripe webhook handlers idempotent using database-level unique constraints.
- ForgeQ: Built a Redis-backed distributed task queue capable of handling burst workloads, with a PostgreSQL audit log to track task outcomes reliably.

PROJECTS

Orch — AI Governance Layer | Personal Project

2025

- Built a FastAPI + Redis middleware layer that intercepts LLM API requests and enforces usage policies, with routing via LiteLLM and OpenRouter.
- Added prompt injection detection and a Next.js dashboard for monitoring token usage and model costs across users.

NearLink — Proximity Social App | Personal Project

2024

- Built a location-based social discovery app using Next.js 14, PostgreSQL, and the Haversine formula for proximity matching with 15-second GPS polling.

AWARDS & RECOGNITION

1st Place — Bincom Hackathon: Hacking GenAI 5.0 | Bincom Dev Center

March 2026

- Won a 24-hour national GenAI hackathon as part of a team of 4.
- Built EduMind — an AI-powered tutor designed to make education accessible in underserved communities, with a focus on subjective student evaluation and personalized feedback.
- Competed against developers and students across Nigeria.

LEADERSHIP & COMMUNITY

Community Lead | ETHNigeria — UNN Chapter

2026 – Present

- Organizing blockchain and Web3 workshops, hackathons, and study sessions for students at the University of Nigeria, Nsukka.
- Mentoring junior developers in full-stack development and open-source contribution.

Greenage P2P Ambassador | UNN Computer Science Department | Helping spread awareness of tech programs and opportunities to CS students.

EDUCATION & CERTIFICATIONS

B.Sc. Computer Science | University of Nigeria, Nsukka

Full-Stack Web Development | Bitxbase Coding Academy

IBM Software Engineering & DevOps | Coursera

cybersecurity | Cisco