

OKUNOWO JOSEPH AYODEJI

FULL-STACK SYSTEMS ARCHITECT & AI ENGINEER

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PROFESSIONAL SUMMARY

Full-stack systems architect and AI engineer specializing in headless web operating systems, local LLM orchestration, and 3D frontend interfaces. Combines aggressive self-driven engineering with academic foundations in Computer Science to build proprietary digital ecosystems. Experienced in developing Next.js architectures, configuring OAuth pipelines, fine-tuning open-source LLMs, and deploying complex networking infrastructure via Tailscale and Cloudflare. Focused on shipping high-performance, system-level software that bridges web architecture, artificial intelligence, and real-world utility.

TECHNICAL SKILLS

Frontend Development: Next.js 14, React, React Three Fiber (R3F), Tailwind CSS, Bootstrap, WebGL, DOM Manipulation, UI/UX Systems.

Backend Development: Python, Flask, Node.js, JavaScript, RESTful Architecture, OAuth 2.0 Pipelines, Headless CMS Integration.

Database & Data: Supabase, Firebase, SQLite, Custom Self-Hosted Databases, Relational Data Modeling, JSON Structured Data.

AI & Neural Nets: Local LLM Orchestration (Ollama, OpenClaw), Model Fine-Tuning, Quantization, Multi-Agent Frameworks (ChatDev), Hugging Face.

Systems & Infrastructure: Linux (Mint, Cinnamon, XFCE), Tailscale, Cloudflare Tunnels, Termux Mobile Environments, Network Administration, Dual-Boot Sysadmin, Bash/Shell Scripting.

Development Tools: Git, GitHub, Vercel, npm, Sandboxed Local Testing, Hardware Optimization, Agile Debugging.

PROFESSIONAL EXPERIENCE

Network & Systems Administrator (SIWES)

Polytechnic Computer Lab | On-Site | 2026 – Present

- Administered and maintained computer lab network infrastructure, ensuring high uptime and stable connectivity for faculty and student operations.
- Managed document processing pipelines and system configurations, troubleshooting daily hardware and software bottlenecks.
- Maintained detailed technical logbook entries tracking daily operational responsibilities, network optimizations, and administrative system tasks.

INDEPENDENT FULL-STACK SYSTEMS BUILDER

Freelance | 2024 – Present

- Architected and deployed full-stack web applications, media streaming services, and browser-based operating systems from concept to production.
- Engineered custom backend APIs, headless CMS environments, secure OAuth pipelines, and tunneled local servers to the public web.
- Fine-tuned and deployed local open-source language models for specialized software development tasks.

SELECTED SOFTWARE PROJECTS

King's OS – Browser-Based Operating System · portfolio.kingsweb.ng

- Architected a highly stylized, terminal-inspired digital interface acting as a personal portfolio and system hub using Next.js 14 and React Three Fiber.
- Engineered a custom headless CMS backend to serve dynamic JSON payload content blocks directly to the frontend with robust offline-fallback mechanisms.
- Integrated a live Spotify Web API pipeline via manual OAuth 2.0 handshakes, extracting refresh tokens via terminal curl scripts to power a real-time "Now Playing" glassmorphic HUD.

TALK TO JOE – OPEN-SOURCE THERAPY PLATFORM

- Developed a global, open-source mental health application designed to provide accessible support and communication channels.
- Engineered real-time chat architecture enabling users to connect anonymously with available peers or certified therapists worldwide.

HALOFLIX – TUNNELED MEDIA STREAMING NETWORK

- Engineered a global media streaming platform by porting a local Jellyfin server architecture to the public web.
- Bypassed standard hosting limitations by configuring Tailscale and Cloudflare tunnels, operating alongside a custom JavaScript frontend interface.

GEMMA-4 CODER FINE-TUNE – AI DEVELOPER MODEL · [HUGGING-FACE.CO/KINGSANTAJOE](https://huggingface.co/kingsantajoe)

- Fine-tuned a coding-focused large language model to optimize generation specifically for software development workflows.
- Quantized the model for efficient local execution, generating runtime artifacts capable of running on consumer-grade hardware.

LOCAL E-BANK – PAYMENT SIMULATOR

- Built a lightweight, mobile-first local payment gateway simulation engineered entirely inside a mobile Termux sandbox environment using Python and Flask.
- Designed the server scripts, database schemas, and frontend UI blocks to mock localized financial transactions securely via SQLite.

ACADEMIC & COMMUNITY TOOLING (CHAPTERCONNECT & FUOYE-QUIZ)

- Developed localized digital infrastructure to support university networking and streamline academic assessments for the student body.

EDUCATION

Bachelor of Science in Computer Science
Federal University Oye-Ekiti (FUOYE) | Nigeria | Expected Graduation: 2028

LANGUAGES

- English – Native
- Yoruba – Native
- French (Français) – Basic Conversation
- Japanese (日本語) – Basic Conversation