

MICHAEL CHINEMEREM ALANEME

Full-Stack Developer | Remote

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PROFESSIONAL PROFILE

Logic-driven Full-Stack Developer specializing in scalable architecture and high-performance server-side systems. Expert at translating complex business needs into maintainable end-to-end solutions using the modern JavaScript ecosystem.

CORE TECHNICAL SKILLS

- **Frontend Engineering:** Next.js (App Router), React.js, TypeScript, JavaScript (ES6+), React Router 6.
- **Backend Engineering:** NestJS, Prisma ORM, PostgreSQL, REST API Design.
- **Content & Data Architecture:** Sanity CMS, Headless CMS Design, GROQ, Webhooks, Relational Database Modeling.
- **Styling & UI:** Tailwind CSS, Responsive & Mobile-First Design, CSS3.
- **Systems & Infrastructure:** AWS S3 (Cloud Storage), Clerk Auth (RBAC), NextAuth, Event-Driven Synchronization, Systemic Data Fetching.
- **Tools & Deployment:** Git, GitHub, Turborepo, pnpm, npm, Vercel, VS Code, Antigravity.

TECHNICAL PROJECTS

Digital Assets Marketplace | *NestJS, Next.js, Prisma, PostgreSQL, AWS S3* | [Live Demo](#)

- Engineered a dual-sided commerce ecosystem allowing users to toggle between buyer and creator roles via a custom onboarding pipeline and secure asset delivery system.
- Architected a modular NestJS backend with Prisma ORM, implementing atomic transactions and complex relational mapping to manage asset ownership and creator metadata.
- Developed a secure authentication handshake using Clerk JWT session claims to synchronize backend roles with frontend UI states in real-time.
- Integrated AWS S3 for scalable digital file hosting, utilizing a Turborepo monorepo structure to maintain a type-safe contract between the server and the client.

Docstomation | *Next.js, NestJS, Prisma, PostgreSQL, GitHub API, OpenAI/Gemini* | [Live Demo](#)

- Engineered an AI-powered documentation platform that analyzes GitHub repositories, generates JSDoc comments, API documentation, and developer guides directly from source code.
- Architected a three-stage documentation pipeline consisting of static code analysis, AI-powered documentation generation, and automated verification to improve documentation accuracy before delivery.
- Built a full-stack application using Next.js, NestJS, Prisma, and PostgreSQL, integrating GitHub APIs and LLM providers to automate repository analysis and Pull Request creation.
- Designed a secure workflow that enables developers to use their own AI API keys while automating code-native documentation without storing repository source code on the platform.

AttendByFace | *Next.js, NestJS, Prisma, PostgreSQL (Supabase)* | [Live Demo](#)

- Engineered an AI-powered biometric attendance platform that replaces manual punch systems with facial recognition, using cloud-based liveness detection to prevent photo spoofing during enrollment.
- Built a real-time verification pipeline syncing kiosk-based facial scans to the cloud, powering punctuality analytics and audit-ready attendance records.
- Integrated a conversational AI assistant enabling managers to query attendance data and generate payroll-ready CSV exports in plain English.
- Automated payroll calculations covering scheduled hours, grace periods, missing clock-outs, late tracking, and overtime hours.

FarmStand | *Next.js, NestJS, Prisma, PostgreSQL (Supabase), Tailwind CSS* | [Live Demo](#)

- Architected a two-sided produce marketplace connecting Nigerian farmers and buyers, with role-based (Farmer/Buyer) onboarding selected at signup.
- Built a NestJS backend with Prisma ORM and Supabase-hosted PostgreSQL, implementing JWT bearer authentication to avoid cross-origin cookie friction between the Render-hosted API and Vercel frontend.
- Developed a listing management system requiring verified product photos, integrated with Cloudinary for image uploads.
- Designed a search and filtering experience with Naira pricing and Nigerian-specific units for farm produce discovery across states.

EDUCATION

Bachelor of Engineering (B.Eng.) in Electrical and Electronics Engineering

Michael Okpara University of Agriculture, Umudike (MOUAAU)

- Status: Undergraduate (300 Level).
- Duration: October 2024 – Present.

PROFESSIONAL INTERESTS & DEVELOPMENT

- **System Design:** Focused on the orchestration of dynamic data flows and maintainable software patterns.
- **Robotics & Hardware:** Maintaining an active interest in drone technology and robotics alongside core software engineering.