

AHMAD IDRIS

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Summary

Full-Stack Software Engineer with a strong foundation in building scalable web applications (Next.js, PostgreSQL) and integrating IoT hardware systems. Proven track record of architecting a regional e-commerce platform supporting over 10,000 active users and programming microcontrollers for remote hardware automation. Passionate about solving complex structural problems, designing secure APIs, and bridging the gap between physical hardware and the web. Currently available for new engineering opportunities.

Education

Federal University of Technology, Minna

2024 – Present

Bachelor of Engineering in Computer Engineering — GPA: 4.87/5.00

Minna, Nigeria

- Relevant Coursework: Data Structures, Algorithms, Computer Architecture, Circuit Theory, Logic Design, Web Programming.

Experience

Lead Web Developer (Contract)

2023 – 2026

BuySellP

Remote / Minna, Nigeria

- Built an entire e-commerce platform from scratch using **Next.js, Prisma, PostgreSQL, and Neon**, taking it from concept to a fully deployed production environment.
- Architected the relational database, handled secure user authentication, and integrated the Paystack payment gateway for seamless, reliable checkout flows.
- Optimized load times and overall performance by implementing server-side caching, writing efficient database queries, and automating media compression.

Frontend Development Tutor

Aug 2025 – Oct 2025

Analytica Haven

Remote

- Taught **HTML, CSS, JavaScript, and React** to over **80 students** through live weekly classes, breaking down complex programming concepts into intuitive lessons.
- Designed structured learning guides and practical assignments, increasing the final project completion rate by **35%**.
- Hosted 1-on-1 debugging sessions, helping students resolve over **120 structural and logical bugs** across their applications.

Projects

BuySellP (E-Commerce Marketplace) | Live App

Next.js | Prisma | Neon PostgreSQL | Paystack

- Created the top campus marketplace in Minna, successfully scaling the platform to support over **10,000 active users**.
- Wrote core backend logic to manage user accounts, dynamic Cloudinary image uploads, and real-time price negotiations.
- Built a comprehensive admin dashboard to track live orders, manage inventory, and seamlessly process vendor payouts.

Project Pulse (IoT Power Monitoring System) | ESP32 | Arduino IDE | Next.js | ZMPT101B

- Programmed custom ESP32 firmware with a ZMPT101B sensor to detect live power outages and physically trigger a water pump relay.
- Built a responsive Next.js web dashboard with secure API endpoints to monitor live power status and remotely toggle the pump from anywhere in the world.

Gifted Tutors (Learning Management System) | Live App

Next.js | React | Database

- Developed a learning platform enabling educators to create digital classrooms, share study materials, and manage enrollments.
- Implemented strict role-based access controls to securely isolate student and teacher data across the platform.

Technical Skills

Frontend: Next.js, React, TypeScript, Tailwind CSS, Framer Motion

Backend & Databases: Node.js, PostgreSQL, MongoDB, Prisma, Supabase, Neon, Redis

Hardware & IoT: ESP32, Arduino IDE, Microelectronics, Sensor Integration (ZMPT101B), Drone Mechanics

Tools & Architecture: Git, Vercel, Cloudinary, Paystack, REST API Design, JWT Authentication

Certifications

Responsive Web Design — freeCodeCamp (2024)

Quantum Computing — Semester 1 — Qubit by Qubit (2023)