THIERNO MADIOU DIALLO

Certified Software Engineer

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SUMMARY

Motivated software developer and co-founder of Tech Nexus. Experienced in building scalable, production-ready applications with multiple active users. Seeking a Software Developer Internship to apply full-stack expertise in high-performance backend, frontend best practices systems and real-time data handling.

PROJECTS

Pultrix Management System (Final Year Project)

- Engineered a scalable, secure, and high-performance backend using **Django REST Framework (DRF)**.
- Enabled seamless communication with **IoT hardware devices** via **AWS**, handling real-time alerts.
- Integrated **real-time CCTV streaming** and built a centralized dashboard for farm monitoring and management.

Tolimoo – Sport Community Platform

- Developed a PWA allowing millions of fans to interact via real-time push notifications and Celery automation.
- Increased security by 80% through secure API authentication with Google Auth and Firebase.
- **Tech:** React, Next.js, TypeScript, Django REST Framework, PostgreSQL.

Twitch Clone (Real-Time Streaming)

- Built a platform designed to handle millions of users with real-time video streaming using **OBS** integration.
- Implemented low-latency architecture to support high-concurrency user interactions and chat.

Dating App (Fintech & Mobile)

- Developed a production-ready mobile application using **React Native**.
- Implemented a monetization system featuring a coin-based economy for premium user interactions.

AIU Market Place – E-commerce Platform

- Deployed a campus e-commerce solution used by students with 16+ active stores.
- Enhanced performance by 25% using Advanced React.js and Supabase.
- Integrated automated email services for account verification and order management.

EXPERIENCE & LEADERSHIP

Lead Developer & Instructor | Tech Nexus

- Work with customers to develop higher-performing applications that are currently live and used by active users.
- Founded a student club focused on practical coding and algorithmic problem-solving.
- Served as a Python and Web Development tutor at Albukhary International University.
- Best startup competition Campus winner.

SKILLS

Languages

HTML5, CSS, JavaScript, Python, TypeScript, C, Java.

Backend, DevOps, Tools, & Databases

Django, Flask, PostgreSQL, MySQL, Docker, Supabase, Prisma, Strapi, Clerk, MongoDB, Jenkins, CI/CD, Git, Figma, AWS.

Frameworks/Libraries

React, Next.js, React Native, Redux, Tailwind CSS, ShadCN.

CERTIFICATION

ALX Software Engineering Certificate
ALX Africa

Python developer
ALX Africa

AWS Cloud Practitioner Certified
ALX Africa

PCEP (Entry-Level Python)

Harvard CS50 Introduction to Computer

Udemy 100 days of Code

Odin Project Completion

EDUCATION

Bachelor of Computer Science
Albukhary International University
📅 2023 - 2026   📍 Alor Setar, Kedah

GPA
3.75 / 4.0

Software Engineering Program
ALX Africa
📍 Online

LANGUAGES

French   Native

English   Proficient