ABDUL-AZIZ ZIBLIM

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Full-stack developer and Industrial Engineering graduate with experience building production-ready web and mobile applications. Strong in React, Next.js, React Native, Python, and Django, with hands-on experience in real-time systems and LLM API integration. Proven ability to deliver end-to-end projects with measurable user impact.

EDUCATION

KWAME NKRUMAH UNIVERSITY OF SCI & TECH, Kumasi (Graduated)   Sept 2020 –Sept 2025

Bachelor of Engineering, Major in Industrial Engineering;

Relevant Coursework: Mathematics, Engineering Design, Computer-Aided Design, Manufacturing Technology, Operations Research, Logistics, Project Management.

EXPERIENCE

Software & IT Support | KNUST E-learning Center   NOV 2025 - Present

Developing ACE IT, an AI-powered mobile learning app using React Native and Expo, targeting KNUST's 60,000+ student population

Integrated LLM APIs to generate personalized courses and flashcards, reducing study preparation time by ~60%.

Providing technical support for e-learning platforms serving 10,000+ students across campus

Intern | R&D and Engineering Design | IMHO Limited, Kumasi (8 weeks)   OCT 2024- NOV 2024

Led a team of six in the design and fabrication of a mobile molten metal pouring system

Managed IT-based tasks, including system requirements documentation and technical presentations.

Conducted research and stakeholder engagements to align the system with industry standards.

PROJECTS

SphereSpace

React · Django · WebSockets · PostgreSQL · Redis

Architected and built a full-stack real-time social platform featuring live video streaming.

Implemented WebSocket scaling using Redis pub/sub to support concurrent users without message loss.

Implemented user engagement features that drive daily active usage.

ACE IT - AI Learning Assistant

React Native · Expo · Supabase · TypeScript · Open models and Gemini/chatgpt API

Developing an AI learning assistant for KNUST's 60,000+ students that auto-generates courses and flashcards

Features personalized study plans and progress tracking, designed to reduce study prep time by 60%.

Developer Portfolio

Next.js 14 · TypeScript · Tailwind CSS

Designed and developed a responsive portfolio using Next.js 14 App Router with server components, achieving 95+ Lighthouse performance score and optimized SEO.

ACTIVITIES

PARTICIPANT, GHANA DATA SCIENCE SUMMIT   Kumasi, Ghana

Gained hands-on experience with data analysis and machine learning tools through workshops and tutorials.

Explored research showcases by ML labs, interacting with industry experts to gain insights into the latest trends and advancements in data science.

ADDITIONAL

Languages: Python, TypeScript, JavaScript, HTML, CSS

Frameworks: Django, FastAPI, React Native, Expo, Next.js, Tailwind CSS

Tools: Docker, Git, Vercel

Certifications & Training:

Python programming and intro to machine learning (Kaggle)

Data analysis with Python (freecodecamp)

Supervised learning, Unsupervised learning, Recommenders, Reinforcement learning (Coursera)

Data & ML exploration: Pandas, NumPy, Scikit-learn, TensorFlow

For additional information on my projects, please visit my portfolio site