

BLESSING EDMUND KWAME DOGBE

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PROFILE

Full Stack Developer specializing in building scalable, modern web applications using **React, TypeScript, Django, and Python**. Strong background in Applied Mathematics, bringing analytical thinking and systematic problem-solving to software development. Experienced in real-time applications, AI integration, payment processing, RESTful API design, and delivering user-focused digital solutions with measurable business impact. Passionate about clean code, continuous learning, and contributing to innovative projects.

EDUCATION

Kwame Nkrumah University of Science and Technology (KNUST)
BSc in Applied Mathematics

Jan 2021 – Aug 2024
Kumasi, Ghana

TECHNICAL SKILLS

Languages: Python, JavaScript (ES6+), TypeScript, HTML5, CSS3, SQL

Frameworks & Libraries: Django, Django REST Framework, React, React Router, Node.js, Express, Tailwind CSS, Flask, Syncfusion

Databases: MySQL, SQLite, Supabase, Relational Database Design

Real-time & APIs: WebRTC, Stream.io, RESTful APIs, Third-party API Integration, Google Gemini AI

Payment & Services: Stripe, Supabase Authentication

Tools: Git, GitHub, Postman, VS Code, Chrome DevTools, npm/yarn, Docker

Concepts: Full-Stack Development, Authentication, AI Integration, Payment Processing, Data Analysis, Software Testing, Web Scraping

Deployment: Vercel, Netlify, PythonAnywhere

PROJECTS

The Tourist's Planner (Full Stack)

2025

React Router v7, TypeScript, Tailwind CSS, Syncfusion, Supabase, Gemini AI, Stripe

Personal Project

- Built a comprehensive full-stack travel application combining AI-powered trip planning with seamless booking experience using Google Gemini AI.
- Implemented role-based portals for tourists (My Trips, Booking) and admins (Dashboard, Trip Management) with React Router v7 navigation.
- Integrated Stripe payment processing for secure transaction handling and Supabase for authentication and database management.
- Designed responsive UI using Syncfusion components and Tailwind CSS, delivering modern and intuitive user experience.

Live Audio Room (Full Stack)

2025

React, TypeScript, Stream.io, Node.js, Express, WebRTC

Personal Project

- Built a modern, real-time audio room application enabling live audio conversations similar to Clubhouse or Twitter Spaces.
- Implemented real-time audio streaming using Stream.io Video SDK and WebRTC for seamless participant interactions.
- Developed participant management and permission system with user authentication and session persistence.
- Created a beautiful glassmorphism-inspired UI with responsive design and smooth user experience.

Book Website (Full Stack)

2025

React (Vite), Django REST Framework, Python

Personal Project

- Built a full-stack book tracking web application with complete CRUD functionality using React and Django REST Framework.
- Implemented RESTful API endpoints for creating, listing, updating, and deleting books with proper HTTP methods.
- Designed a modern dark, glassmorphism-inspired UI with responsive layout and immersive background styling.
- Configured CORS for secure frontend-backend communication and wrote basic automated tests for API behaviors.

Notes Application (Full Stack)

2025

React, Django REST Framework, Python

Portfolio Project

- Developed a full-stack notes application with CRUD functionality using React and Django REST Framework.
- Implemented RESTful APIs for note management with clean separation of frontend and backend concerns.

- Built a responsive, dark-themed UI with auto-save functionality and real-time update behavior.
- Focused on scalability, maintainable code structure, and intuitive user experience.

Indeed Job Scraper

Python, BrightData API

2024

Personal Project

- Built a Python-based automation tool to collect job listings from Indeed using BrightData API.
- Performed data cleaning, structured results, and exported datasets to CSV for analysis.

Movie Recommendation System

Python, Pandas, Scikit-learn, Streamlit

2024

Academic Project

- Designed a recommendation engine using similarity-based machine learning techniques.
- Deployed an interactive web interface with Streamlit for real-time recommendations.

Speech Emotion Recognition System

Python, Keras, Librosa

2024

Machine Learning Project

- Developed a real-time emotion classification system using audio signal processing and deep learning.
- Extracted MFCCs, Zero Crossing Rate, Energy, and Pitch features for emotion prediction.

EXPERIENCE

Kwame Nkrumah University of Science and Technology (UITS)

Oct 2024 – Sep 2025

Information Technology Technician

Kumasi, Ghana

- Provided technical support for faculty and students, troubleshooting hardware, software, and network issues.
- Maintained IT infrastructure, ensuring system reliability and minimal downtime across departments.
- Assisted with network administration and system maintenance to support university operations.

M365Connect

Dec 2024 – Mar 2025

Python Developer (Backend) – Intern (Remote)

Germany

- Developed backend services using Django, focusing on scalable REST API design and implementation.
- Integrated third-party services and implemented automated web scraping solutions for data collection.
- Worked on database optimization and backend performance improvements to enhance system efficiency.
- Contributed to building robust backend infrastructure supporting multiple client requirements.

HubbleMind

Nov 2024 – Dec 2024

Data Science Intern (Remote)

India

- Preprocessed health datasets using encoding techniques (label encoding, one-hot encoding), outlier treatment with IQR, and feature engineering.
- Built machine learning models for obesity level prediction and evaluated model performance metrics.
- Conducted comprehensive data preprocessing including duplicate removal and feature selection for improved model accuracy.

Zidio Development

Aug 2024 – Nov 2024

Data Science Intern (Remote)

India

- Developed machine learning models for speech emotion recognition and recommendation systems.
- Applied audio signal processing techniques (MFCCs, Zero Crossing Rate, Energy, Pitch) and collaborative filtering methods.
- Deployed real-time emotion classification systems using deep learning frameworks.

Lerato Consult

Nov 2022 – Dec 2024

OS Technician & IT Support Assistant

Accra, Ghana

- Installed, configured, and maintained Point of Sale (POS) systems for retail and hospitality clients.
- Provided on-site technical support, reducing system downtime and improving client satisfaction.
- Managed hardware and software installations, ensuring optimal performance for business operations.

CERTIFICATIONS

- **Learn React** - Scrimba ([View Certificate](#))
- **The Full Stack** - Meta ([View Certificate](#))
- **APIs** - Meta ([View Certificate](#))
- **Django Web Framework** - Meta ([View Certificate](#))
- **Databases for Backend Development** - Meta ([View Certificate](#))
- **Machine Learning With Python** - IBM ([View Certificate](#))
- **System Administration and IT Infrastructure Services** - Google ([View Certificate](#))
- **Deep Learning & Neural Networks With Keras** - IBM ([View Certificate](#))
- **Version Control** - Meta ([View Certificate](#))
- **Programming in Python** - Meta ([View Certificate](#))
- **Python for Data Science & Machine Learning** - Udemy ([View Certificate](#))