

# BLESSING EDMUND KWAME DOGBE

Accra, Ghana · +233 536064409 · dogbeblessingkwame@gmail.com · linkedin.com/in/edmund-blessing · github.com/GeekKwame · Portfolio

## 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, 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, Node.js, Express, Tailwind CSS, Flask

**Databases:** MySQL, SQLite, Relational Database Design

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

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

**Concepts:** Full-Stack Development, Authentication, Data Analysis, Software Testing, Web Scraping

**Deployment:** Vercel, Netlify, PythonAnywhere

## PROJECTS

### 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

**2024**

*Python, BrightData API*

*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

**2024**

*Python, Pandas, Scikit-learn, Streamlit*

*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

**2024**

*Python, Keras, Librosa*

*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)

*Information Technology Technician*

Oct 2024 – Sep 2025

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

Germany

#### *Python Developer (Backend) – Intern (Remote)*

- 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

India

#### *Data Science Intern (Remote)*

- 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

India

#### *Data Science Intern (Remote)*

- 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

Accra, Ghana

#### *OS Technician & IT Support Assistant*

- 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](#))