

BLESSING EDMUND KWAME DOGBE

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🐙 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)

Jan 2021 – Aug 2024

BSc in Applied Mathematics

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)

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](#))