

Wadi Mkweza

AI & Full-Stack Developer

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Professional Summary

A passionate and results-oriented Full-Stack Developer with over 5 years of experience designing, developing, and deploying robust, scalable web and mobile applications. Now transitioning into a specialized role focusing on the integration of Artificial Intelligence to build smarter, more intuitive, and data-driven digital solutions. Proven ability to lead projects from concept to completion, with a deep commitment to clean code, user-centric design, and leveraging cutting-edge technology to solve complex problems.

Technical Skills

Category	Technologies
Frontend & Mobile	React, Next.js, TypeScript, Tailwind CSS, React Native, Flutter
Backend	Node.js, Python, GraphQL, PostgreSQL, MongoDB
AI / Machine Learning	PyTorch, TensorFlow, Scikit-learn, LangChain, Hugging Face API
DevOps & Cloud	AWS, Docker, Kubernetes, CI/CD (GitHub Actions), Terraform

Professional Experience

Lead Full-Stack Developer | Mzatinova | Lilongwe, Malawi Jan 2021 – Present

- Architected and led the development of a scalable e-commerce platform using a MERN stack (MongoDB, Express, React, Node.js), resulting in a 40% increase in client sales conversions.
- Engineered a cross-platform mobile application with React Native for an EdTech client, serving over 10,000 active users.
- Implemented a CI/CD pipeline using Docker and GitHub Actions, reducing deployment time by 75% and improving system reliability.
- Mentored a team of junior developers, fostering a culture of collaboration and high-quality code standards through regular code reviews and pair programming sessions.

Software Developer | Baobab Health Trust | *Lilongwe, Malawi June 2018 – Dec 2020*

- Developed and maintained critical features for a national-level electronic health record (EHR) system using JavaScript and Python.
- Collaborated with a cross-functional team to design and implement a new patient data synchronization module, improving data accuracy by 98%.
- Optimized database queries and backend logic, leading to a 30% improvement in application performance and response times.

AI & Personal Projects

AI-Powered Portfolio Chatbot | *Personal Project*

- Developed a custom chatbot for my personal portfolio using React for the frontend and the OpenAI API for the backend logic.
- Engineered a system prompt to train the model on my specific skills, experience, and project details, enabling it to act as a personal AI assistant for recruiters.
- **Technologies:** React, TypeScript, Vercel Serverless Functions, OpenAI API.

Sentiment Analysis API | *Personal Project*

- Built a REST API in Python that analyzes the sentiment of a given text using a pre-trained model from the Hugging Face Hub.
- Containerized the application with Docker and deployed it on AWS, creating a scalable and accessible microservice.
- **Technologies:** Python (Flask), Hugging Face Transformers, Docker, AWS.

Education

Bachelor of Education in Computer Science University of Malawi, Chancellor College
| *Zomba, Malawi Graduated: May 2026*