

MWANGI JOSEPH

Full Stack Software Developer | AI & Automation Enthusiast

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Curious and fast-learning Full Stack Developer with 3+ years of experience building scalable web applications using Python, JavaScript/TypeScript, React, Next.js, Node.js, and FastAPI. Actively exploring Generative AI, LLM integration, and chatbot development to build intelligent, AI-powered tools. Experienced in RESTful API design, backend architecture, database management (MySQL, PostgreSQL), and cloud deployment on AWS. AWS Certified Cloud Practitioner with a strong foundation in problem-solving, rapid prototyping, and shipping production-ready code. Eager to apply AI and full-stack engineering skills to real-world product challenges in a collaborative, fast-paced environment.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, HTML5, CSS3

AI & Automation: LLM APIs (OpenAI, Anthropic), Prompt Engineering, Chatbot Development, LangChain

Frontend: React.js, Next.js, Tailwind CSS, Responsive Design

Backend & APIs: Node.js, FastAPI, RESTful APIs, API Integration, Microservices

Databases: MySQL, PostgreSQL, Query Optimization

Cloud & DevOps: AWS (EC2, RDS, IAM), Docker, CI/CD, Git, GitHub, Linux

Tools & Practices: Postman, Chrome DevTools, Agile/SDLC, OOP, System Documentation

PROJECTS

MedAssist – AI-Powered Healthcare Chatbot

Personal Project | April 2026 – Present

- Built an AI-powered healthcare FAQ chatbot using Python FastAPI, React, and the OpenAI API, enabling users to ask natural-language questions about common health topics and receive context-aware responses.
- Engineered a prompt engineering pipeline with system instructions and conversation memory to deliver accurate, grounded responses while minimizing hallucinations.
- Developed a responsive React frontend with real-time streaming chat interface and Tailwind CSS styling for cross-device compatibility.
- Designed RESTful API endpoints to manage conversation sessions, user authentication, and chat history persistence in PostgreSQL.
- Containerized the application with Docker and deployed to AWS EC2 with a CI/CD pipeline via GitHub Actions.
- Published source code and live demo on GitHub with comprehensive documentation and API reference.

Mental – Hospital Management System (HMS)

Bloom Care | January 2026 – Present

- Designed and developed a full-stack hospital management system using Python FastAPI and MySQL, supporting patient management, appointment scheduling, and electronic medical records.
- Engineered secure authentication and role-based access control (RBAC) to enforce data privacy and user permissions across clinical modules.
- Developed well-documented RESTful API endpoints and optimized database queries for efficient data processing and system reliability.
- Debugged and resolved production issues, optimized slow queries, and performed load testing to simulate real-world clinical workflows.

PropertyHub – Real Estate Management Platform

Personal Project | September 2025 – December 2025

- Architected a full-stack real estate platform using React.js, Node.js, and PostgreSQL, enabling property listing, tenant management, and lease tracking with role-based access for owners, agents, and tenants.
- Built a responsive frontend applying UX/UI design principles with Tailwind CSS, and developed secure RESTful APIs with JWT authentication.
- Containerized the application using Docker and automated build/test/deploy workflows with GitHub Actions CI/CD pipeline.
- Integrated third-party services including payment gateways and mapping APIs, and optimized PostgreSQL schemas with indexing strategies that improved query performance by 50%.

WORK EXPERIENCE

Full Stack Software Engineer

Roadrims Logistics | November 2024 – Present

- Developed responsive UIs with Next.js, React, and Tailwind CSS, boosting user task-completion efficiency by 30% on the logistics platform.
- Built and integrated RESTful APIs using Node.js and Python FastAPI, resolving data discrepancies and reducing frontend defects by 40% through systematic testing.
- Implemented state management with Redux and Context API, improving code maintainability and performance across multiple application modules.
- Configured MySQL databases and AWS infrastructure (EC2, RDS, IAM) for secure, scalable production deployments.
- Documented API contracts and development workflows, streamlining team onboarding and cross-functional collaboration.

EDUCATION & CERTIFICATIONS

AWS Certified Cloud Practitioner

AWS re/Start Program | 2025

Software Engineering – Backend Specialization

ALX Africa | 2023 – 2024

Bachelor of Science in Public Health

Technical University of Kenya | 2019 – 2024