

MARTIN MUTUGI

Full Stack Software Developer | MERN Stack Specialist

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PROFESSIONAL SUMMARY

Full Stack Software Developer with expertise in MERN stack (MongoDB, Express.js, React.js, Node.js) and modern web technologies. Computer Science graduate with proven ability to design, develop, and deploy scalable web applications with AI integration, payment systems, and real-time data management. Strong background in system architecture, database design, and full software development lifecycle.

PROFESSIONAL EXPERIENCE

10/2025 – Present

DLP/ICT Intern

Ministry of Education, Kenya

- Successfully onboarded into Ministry workforce for ICT functions and service delivery
- Supporting ICT infrastructure and digital education initiatives
- Collaborating with technical teams on education technology solutions

01/2023 – 06/2024

Call Center Professional

Global Connect Solutions & CallNet BPO Services

- Developed problem-solving and client communication skills managing 80-100+ daily interactions
- Utilized CRM systems (Zendesk, Salesforce) for data management and ticket tracking
- Achieved 95%+ customer satisfaction through effective technical troubleshooting

EDUCATION

09/2020 – 05/2024

Bachelor of Science in Computer Science

Kibabii University, Bungoma, Kenya

Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Software Engineering, Web Development, System Analysis & Design, Computer Networks, Operating Systems

CORE COMPETENCIES

Full Stack Development

MERN Stack Architecture

Database Design & Optimization

RESTful API Development

System Integration & Maintenance

Agile Methodologies

Problem Solving

Technical Documentation

Team Collaboration

Quick Learning & Adaptability

CERTIFICATIONS & LANGUAGES

English
(Native)

French
(C1 Advanced)

Kiswahili
(Conversational)

PROFESSIONAL PROJECTS

AgriSmart SDG Platform

Lead Developer

Live Demo: [https://finale-plp-project-chi.vercel.app/](https://finale-plp-project-chi.vercel.app/*)

Tech Stack: MongoDB, Express.js, React.js, Node.js, Gemini AI, Paystack

- Architected comprehensive MERN-stack sustainable agriculture platform aligned with UN SDG 2, 12, and 13
- Integrated Gemini AI chatbot providing actionable agricultural insights for farmers and policymakers
- Implemented freemium-to-premium monetization with Paystack payment gateway integration
- Designed scalable database architecture for agricultural data, user profiles, and subscription management
- Built RESTful APIs for seamless frontend-backend communication with real-time data synchronization

Mindful Minutes Platform

Full Stack Developer

Live Demo: [https://mindfulminutes.onrender.com/](https://mindfulminutes.onrender.com/*)

Tech Stack: MERN Stack, AI Mood Analysis, Real-time Processing

- Developed emotionally intelligent wellness platform delivering personalized micro-meditation experiences
- Implemented real-time AI mood analysis system for personalized content delivery
- Built robust backend with Node.js/Express.js handling authentication and session management
- Designed MongoDB schema for user profiles, meditation sessions, and mood analytics
- Optimized application performance for handling concurrent user sessions

SDG Donations Platform

Full Stack Developer

Live Demo: [https://angie-plp-final-project.vercel.app/](https://angie-plp-final-project.vercel.app/*)

Tech Stack: MERN Stack, Payment Gateway Integration, Real-time Tracking

- Built transparent donations platform supporting UN SDGs with direct donor-to-recipient funding
- Implemented secure payment processing with real-time transaction and impact tracking
- Developed database architecture for donations, campaigns, and impact metrics management
- Created interactive dashboard displaying real-time donation impact and SDG progress
- Designed RESTful API endpoints for donation processing, user management, and reporting

CERTIFICATIONS & LANGUAGES

French Language Proficiency (C1 Level)

Alliance Française, Nairobi | Top Performer Award -

Global Connect Solutions (2023) | Customer

Retention Excellence (2023)

ADDITIONAL TECHNICAL EXPERIENCE

Systems Development & Maintenance

Live production application maintenance and scaling | Performance optimization reducing load times by 0% | Bug fixing and troubleshooting | Database optimization and query tuning | Security implementation with data encryption

ADDITIONAL TECHNICAL EXPERIENCE

Modern Frameworks Expertise

Component-based architecture with React.js | Server-side development with Node.js/Express.js | RESTful API development | State management (Redux, Context API) | Responsive design with modern CSS frameworks