ROY MWANGI

FULL-STACK DEVELOPER

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SUMMARY

Detail-oriented Full Stack Software Developer with over 3 years of experience designing and optimizing software systems with a keen focus on process automation, data management, and cross-team collaboration. Proficient in backend and frontend development, database optimization, and building self-service dashboards and reports. Experienced in troubleshooting, systems audits, and ensuring system stability and security. Strong communicator and collaborator, passionate about leveraging technology to streamline operations, drive efficiency, and enhance business outcomes.

PROFESSIONAL EXPERIENCE

Software Developer, *Ask RemoHealth*   02/2025 – present

- Frontend development of responsive, user-friendly interfaces for both patients and medical professionals.
- Designed and deployed an AI-powered chatbot capable of analyzing patient-reported symptoms and intelligently recommending the most suitable medical specialists, thereby streamlining triage and reducing patient waiting times.
- Developed a secure and scalable authentication system using NextAuth.js with Redis as the session store, ensuring fast, reliable, and stateful user session management for both patients and healthcare providers.
- Integrated Twilio Video APIs to enable seamless, real-time video consultations between doctors and patients, enhancing the platform's remote healthcare delivery capabilities.

Software Developer, *Semarrands Motor Bazaar*   05/2022 – 02/2025

- Designed, developed, and maintained the dealership's website to showcase vehicle inventory, promotions, and services.
- Optimized website performance and SEO to increase visibility and organic traffic, resulting in higher conversion rates and better search rankings.
- Implemented lead generation features such as contact forms and inquiry submission, improving customer engagement and sales funnel tracking.
- Utilized tools like Google Analytics to monitor user behavior and inform data-driven improvements.
- Designed and developed a robust Inventory Management Desktop Application using Java (Swing) and MySQL, tailored to streamline the dealership's vehicle tracking and stock management processes.
- Automated manual inventory tasks, reducing stock reconciliation time by over 60% and minimizing human error.
- Implemented key features such as real-time stock updates, vehicle categorization, sales tracking, and user authentication.

Freelance Data Annotation Specialist, *Toloka*   05/2023 – 10/2023

- Executed a wide range of microtasks, including image and video annotation, audio transcription, text categorization, and relevance assessment to support AI model training.
- Participated in complex projects such as sentiment analysis, search engine evaluation, and speech recognition data collection.

Freelance Data Annotation Specialist, *Remotasks*   09/2022 – 12/2022

- Performed data labeling and annotation tasks for AI/ML training, including image segmentation, LiDAR tagging, transcription, and categorization.
- Worked on high-accuracy projects under tight deadlines and maintained task quality scores.

EDUCATION

Bachelor of Science in Computer Science, *Kenyatta University*   09/2021 – 04/2025
Nairobi, Kenya

Utumishi Boys Academy   01/2017 – 04/2021
Nakuru, Kenya

TECHNICAL SKILLS

- **Process Automation & Reporting:** System automation, dashboard development (Google Analytics, internal dashboards), API integrations, performance optimization, workflow automation (n8n), reporting automation.
- **Software Development:** PHP, Laravel, Java (Swing), Node.js, Spring Boot, Next.js, React, OOP principles.
- **Database Management & Analytics:** MySQL, PostgreSQL, data reporting, analytics dashboards, query optimization.
- **HRIS & ERP Concepts:** User access controls, session management, system stability audits, performance monitoring, cross-functional stakeholder coordination.
- **Version Control & Collaboration:** Git, GitHub, Agile methodologies, collaboration with cross-functional teams, documentation and training of non-technical users.
- **Testing & Security:** Postman, PHPUnit, Pest, role-based access control, system security audits.