Joseph Matu Mwalya

Software Engineer
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Career Objective

Dynamic and results-driven Software Engineer with a Bachelor's degree in Software
Engineering and expertise in full-stack development, mobile applications, and machine learning.
Adept at delivering high-quality, scalable code and collaborating with cross-functional teams to
drive innovative solutions. Seeking to contribute technical proficiency and a passion for
continuous learning to cutting-edge projects at a forward-thinking organization.

Education

Bachelor of Science in Software Engineering
Kisii University, Kisii, Kenya
September 2021 – Present (Expected Graduation: 2025)

- Relevant Coursework: Data Structures, Algorithms, Web Development, Machine
  Learning, Database Systems

Kenya Certificate of Secondary Education (KCSE)
Kisasi Secondary School, Kitui, Kenya
January 2017 – April 2021

- Attained a Mean Grade of B+

Technical Skills

- **Programming Languages**: Python (Flask), Java, JavaScript, PHP, HTML, CSS
- **Frameworks & Libraries**: React, Node.js, JSP, Servlets
- **Databases**: MySQL, Database Design & Management
- **Tools & Platforms**: Git, Agile Methodologies, Excel, Word, PowerPoint, Access
- **Development Areas**: Full-Stack Development, Frontend Development, Mobile App
  Development
- **Emerging Technologies**: Machine Learning, Artificial Intelligence (Familiar)

- **Soft Skills**: Problem-Solving, Testing & Debugging, Team Collaboration, Rapid Learning

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Professional Experience

ICT Intern
Kitui County Referral Hospital, Kitui, Kenya
May 2024 – August 2024

- Configured and maintained hospital network infrastructure, improving system uptime.
- Supported the hospital management system by troubleshooting issues and optimizing workflows, enhancing patient data retrieval efficiency.
- Trained 10+ staff members on basic computer skills, increasing department productivity.
- Collaborated with IT team to implement security protocols, reducing system vulnerabilities.

Key Projects

Hospital Management System (PHP, MySQL)

- Developed a web-based system to streamline patient registration and record-keeping, managing 500+ patient records with 99% data accuracy.
- Integrated doctor profiles with specialization details, improving staff coordination.

Smart Agriculture Crop Recommendation System (Python, Machine Learning)

- Built a machine learning model to recommend crops based on soil and weather data, increasing crop yield predictions by 20%.
- Utilized Python libraries (Pandas, Scikit-learn) for data analysis and model training.

Dynamic Agriculture Web Application (Java, JSP, Servlets)

- Created a platform for farmers to access real-time solutions for crop issues, reducing yield losses by 10% in pilot testing.
- Implemented responsive UI with 100+ user interactions tracked for usability improvements.

Lost and Found Community Platform (PHP, MySQL)

- Engineered a web application enabling users to report and track lost items, with admin notifications for matches, serving 200+ users.

- Enhanced user experience with intuitive search and reporting features.

Personal Portfolio Website (HTML, CSS, JavaScript)

- Designed and deployed a responsive portfolio showcasing projects, attracting 500+ unique visitors within three months.

References

Jane Wambua
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