

## FREDRICK WAMBUA MAKAU

Full-Stack Developer | Software Quality Assurance | Systems Analyst  
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P.O Box 1250, 00232, Ruiru, Kenya

### PROFESSIONAL PROFILE

I am a software engineer focused on building reliable, user-centered web applications, with experience in Python (Django, Flask), React.js, and relational databases such as PostgreSQL and MySQL. I also bring strong quality assurance experience, ensuring system reliability, integration accuracy, and early defect detection. I write clean, maintainable code and approach development from both technical and user perspectives to deliver practical solutions. My experience across telecommunications, government ICT, renewable energy, and enterprise systems has strengthened my adaptability in diverse environments, and I am continuously improving my skills in test automation, modern development practices, and cloud technologies. I am seeking a development role where I can contribute to impactful projects, collaborate with engineering teams, and continue growing as a software engineer.

### TECHNICAL SKILLS

Category	Technologies
Languages	Python, PHP, JavaScript (ES6+), SQL, HTML5, CSS3
Frameworks and Libraries	Django, Flask, React.js
Databases	PostgreSQL, MySQL, IBM DB2
Quality Assurance and Testing	Manual Testing, API Testing using Postman, Test Case Design, Regression Testing, Compatibility Testing, Bug Tracking and Reporting
DevOps and Tools	Git and GitHub, Visual Studio Code, Cursor AI, GitHub Copilot
Enterprise Systems	Microsoft Dynamics 365 Business Central Architecture, AL Language Fundamentals
Design and Prototyping	Figma for UI/UX Design
Networking and Infrastructure	LAN and WAN Configuration, Server Maintenance, CCTV Systems

### PROFESSIONAL EXPERIENCE

Transsion Holdings | Nairobi, Kenya

Software Quality Assurance Engineer | July 2025 to Present

- Conduct comprehensive manual compatibility, functional, and regression testing for mobile software and applications across multiple device models and operating system versions.
- Design and maintain structured test case libraries and scenario based testing documentation to ensure consistent quality standards for every release.
- Identify, document, and track software defects using established quality assurance workflows, and verify fixes by collaborating closely with development teams before deployment.
- Perform API testing using Postman to validate system integrations, data flows, request response cycles, and error handling between mobile applications and backend services.
- Analyze test results and recommend system improvements and requirement enhancements to deliver more stable, performant, and user friendly software releases.
- Collaborate with cross functional development teams to troubleshoot complex issues and improve overall system stability, performance, and user satisfaction.

**Image Product Effect and Evaluation Specialist** | *March 2025 to July 2026 (Cross Functional Role)*

- Conducted field based user experience research on imaging systems across multiple mobile devices, gathering real world performance data from diverse user environments.
- Analyzed collected data and compiled detailed technical evaluation reports that directly informed camera tuning decisions and firmware improvements.
- Performed firmware testing and image quality validation, identifying and reporting visual anomalies, performance inconsistencies, and usability concerns.
- Supported debugging of imaging systems, including basic level AWB (Auto White Balance) tuning and validation.

**Seven SS Stars** | **Nairobi, Kenya**

**Renewable Energy Sales Representative** | *February 2024 to November 2024*

- Consulted with customers to assess their energy requirements and recommended appropriate renewable energy solutions tailored to their specific needs.
- Built and maintained strong client relationships through consistent follow up communication and responsive after sales support.
- Consistently achieved sales targets through structured outreach, needs based selling, and effective relationship management.

- Provided post sales technical support and troubleshooting guidance to ensure customer satisfaction and long term system performance.

## **Taita Taveta County Government | Voi, Kenya**

### **ICT Volunteer** | *May 2023 to October 2023*

- Assisted with ICT infrastructure maintenance, hardware troubleshooting, and system updates across various county departments.
- Supported database management and ensured the smooth operation of hospital information systems.
- Participated in network configuration and CCTV installation projects alongside the ICT team.
- Provided technical support to staff on hardware, networking, and software related issues.

### **ICT Attachee** | *January 2023 to April 2023*

- Installed, configured, and troubleshot local area networks, wide area networks, and CCTV surveillance systems across multiple county government facilities.
- Maintained ICT server infrastructure, ensuring consistent system uptime and reliability for critical hospital operations and administrative functions.
- Managed hospital database operations, performing data insertion, updates, deletions, and integrity checks to ensure accurate and secure patient records.
- Developed minor application features and system improvements to support healthcare data workflows and reporting requirements.

## **EDUCATION**

### **Bachelor of Science in Computer Science**

Egerton University, Nakuru, Kenya | \*2018 to 2023\*

Relevant coursework included System Analysis and Design, Database Management, Software Engineering, Data Structures and Algorithms, and Network Security.

## **PORTFOLIO PROJECTS**

### **Polling Web Application**

- Built a real time polling web application using Django and React.js that allows users to create, vote on, and view poll results instantly.
- Implemented user authentication and authorization to manage poll creation and voting permissions.

- Designed a responsive user interface using React.js and Bootstrap for seamless voting across desktop and mobile devices.

## **KEY COMPETENCIES**

- **Full-Stack Development:** Experienced in building web applications using Python, Django, Flask, React.js, and relational databases including PostgreSQL and MySQL.
- **Development and Quality Assurance Integration:** Brings a developer's understanding of system architecture and code quality, combined with a quality assurance professional's eye for edge cases and usability issues.
- **Structured Testing Approach:** Skilled in designing comprehensive test cases, executing methodical manual test cycles, and documenting results clearly for technical and non technical stakeholders.
- **Systems Thinking:** Comfortable working across the entire technology stack, from frontend user interfaces and backend application logic to database administration and network infrastructure.
- **Adaptability:** Successfully worked across multiple industries including telecommunications, government ICT, renewable energy, and enterprise systems.
- **Documentation and Reporting:** Produces clear, actionable technical reports, test summaries, and system documentation that support informed decision making for engineering teams and stakeholders.

## **REFEREES**

### **REFEREES**

#### **Geoffrey Mwachoki**

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#### **Urbanus Kioko**

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Taita Taveta County Government

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#### **Victor Kioko**

Finance Officer,

EPK, Nairobi

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