


MWANGI JOSPHAT KARANJA

SOFTWARE ENGINEER | FULL STACK DEVELOPER | IT SUPPORT SPECIALIST

PROFESSIONAL PROFILE

Results-driven Software Engineer and IT Specialist with a Diploma in ICT and professional certification in Full Stack Software Development. Possesses hands-on experience in web application development, system administration, and IT support gained through technical roles within Kenyan government ministries. Proven ability to develop and optimize secure, scalable systems; including direct contributions to national financial and community reporting platforms; while enhancing network performance and user capacity. Combines technical expertise with a strong commitment to innovation, security, and continuous learning in technology.

CONTACTS

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LANGUAGES

- **English** – Fluent
 - **Swahili** – Native
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PROFESSIONAL EXPERIENCE

ICT OFFICER (ATTACHMENT 1)

THE NATIONAL TREASURY - STATE DEPARTMENT FOR ECONOMIC PLANNING

23RD SEPT 2022 - 23RD NOV 2022

TASKS

- **Monitoring and Performance Evaluation of Integrated Financial Management Information System (IFMIS)**- Actively monitored the performance and functionality of the IFMIS to ensure the seamless processing of financial transactions within government institutions. Regularly analyzed system logs,

identified performance bottlenecks, and collaborated with stakeholders to implement necessary improvements.

- **Pilot Implementation of a New Management Information System (MIS)-** Took part in testing and pilot implementation of a new Management Information System (MIS) to streamline reporting and enhance decision-making processes across government departments. Ensured that pilot projects met performance standards and provided detailed feedback for system optimization.
- **User Training and Capacity Building on Financial Management Systems-** Developed and conducted training sessions for government officials and other users on the effective use of the IFMIS and new MIS tools. Produced user manuals, FAQs, and troubleshooting guides to ensure proper system adoption and minimize operational disruptions.
- **System Upgrade and Patch Management-** Coordinated and supported the process of upgrading existing application software and operating system on computers by applying patches, installing new releases, and ensuring smooth transitions. Managed system backups and restoration processes to mitigate risks associated with system downtimes.
- **Technical Support and Issue Resolution for Financial Systems-** Provided technical support to end-users within the government, resolving system-related issues, troubleshooting errors, and offering timely solutions. Monitored user complaints and worked with the development team to implement system updates and fixes based on user feedback.
- **General ICT Support and Data Entry-** Provided essential ICT support for day-to-day operations, including accurate data entry into financial and administrative systems. Ensured that all entered data met accuracy and consistency standards, contributing to reliable reporting and informed decision-making.
- **Antivirus Installation and System Security Monitoring-** Installed and maintained antivirus software across all ICT equipment to ensure that systems remained secure from cyber threats. Monitored antivirus logs, ran routine system scans, and worked with the cybersecurity team to address potential security vulnerabilities in a timely manner.
- **Issuance and Requisition of ICT Equipment-** As part of ICT team, we managed the requisition and distribution of ICT hardware and software, including computers, printers, and networking devices. Ensured that employees had the tools they needed to perform their roles effectively, and kept accurate records of equipment issued and returned for inventory control.
- **Preparation and Monitoring of Meetings and ICT-Related Activities-** Coordinated and prepared materials for ICT-related meetings, ensuring that all logistical arrangements were made, including video conferencing setups, document preparation, and room bookings. Monitored meeting outcomes and action items, providing timely follow-ups to ensure the effective implementation of decisions made.

ICT OFFICER (ATTACHMENT 2)

MINISTRY OF EAST AFRICAN COMMUNITY (EAC), ASALs AND REGIONAL DEVELOPMENT - STATE DEPARTMENT FOR EAST AFRICAN COMMUNITY AFFAIRS
23RD SEPTEMBER – 23RD DECEMBER 2024

TASKS

- **Network and System Infrastructure Upgrade** -Upgraded the organization's LAN with the help of Dimension Data from 70mbps to over 110mbps speeds infrastructure to improve performance, scalability, and reliability and provided support for over 200 employees.
- **Wireless Network Optimization**-Improved the performance and coverage of the organization's network by adjusting access point (AP) placement, configure channels, and optimize power setting using PoE's
- **East African Community Non-Tariff Barrier Reporting and Monitoring System**- Participated in a workshop that came with a system which will resolve the issues of NTBs in the 8 states in EAC through the 8 states in EAC. The system is called Non-Tariff Barriers Reporting and Monitoring System
- **Provided Network and Peripheral support**-This Included Router management, System Configuration and Maintenance, Software and Hardware Upgrades, Cable Management, Documentation Support and Printer Troubleshooting.

ICT OFFICER (PART TIME PROBATION)

GITHIMA TV

03RD JANUARY 2026 – PRESENT

TASKS

- **Broadcast IT Infrastructure Management** - Oversee and maintain the studio's core IT systems, ensuring high availability for live production and broadcast operations with minimal downtime.
- **Network Administration** - Manage and monitor the corporate network, VLAN configurations for media traffic, and firewall policies to secure sensitive broadcast data and internal communications.
- **Media Asset Management Support** - Assist in the administration of digital storage systems and servers, ensuring efficient archiving, retrieval, and backup of video content and broadcast logs.
- **End-User and Production Support** - Provide Tier 1/2 technical support to journalists, editors, and production staff, troubleshooting software, hardware, and connectivity issues in a fast-paced newsroom environment.
- **News and Promo/Advertisement Editing** - Edit news packages, promotional content, and commercial advertisements using video editing software to ensure high-quality broadcast standards and timely delivery.
- **Graphic Design and Poster Creation** - Design promotional posters, graphics, and visual content for upcoming programs, news highlights, and station events using industry-standard design software.
- **Website Development and Maintenance** - Developed, and made incharge of updates, and maintain the company's website to ensure optimal performance, fresh content, and a user-friendly experience for viewers and advertisers.

- **Staff Check-in System Administration** – Developed, Manages and maintains the digital staff check-in system, ensuring accurate attendance tracking, troubleshooting issues, and generating reports for HR and management.
 - **System Maintenance and Documentation** - Perform routine system checks, apply software updates, and maintain accurate documentation of network configurations, IT inventory, and support tickets.
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TECHNICAL SKILLS

- ✓ **Frontend Development:** HTML5, CSS3, JavaScript, React
 - ✓ **Backend Development:** Node.js, Express.js, Python, Django, Flask, PHP
 - ✓ **Databases:** MongoDB, SQL
 - ✓ **Cloud & DevOps:** IBM Cloud, system deployment, patch management
 - ✓ **Networking & Infrastructure:** LAN/WAN optimization, wireless network configuration, router management, PoE setups
 - ✓ **Cybersecurity:** Vulnerability monitoring, antivirus management, ISC2 & IBM security certified
 - ✓ **Tools & Platforms:** Git, AnyDesk, TeamViewer, IFMIS, MIS platforms
 - ✓ **Operating Systems:** Windows, Linux environments
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EDUCATION AND CERTIFICATIONS

- ✓ Diploma in Information Communication Technology (Second Class Upper Division)
Borabu Technical Training Institute | 2021-2025
 - ✓ Full Stack Development Professional Certificate
Power Learn Project Academy | 2025
 - ✓ AI Literacy Certified Course
Outerman's Institute | 2025
 - ✓ Cybersecurity & Emerging Technologies Certification
IBM & ICT Authority | 2024
 - ✓ Kenya Certificate of Secondary Education (Grade B-)
Githiga Boys High School | 2017-2021
 - ✓ Kenya Certificate of Primary Education (351 Marks)
Ngewe Primary School | 2012-2017
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PROJECTS & ACHIEVEMENTS

- ✓ Contributed to the pilot implementation of a government **Management Information System (MIS)** designed to streamline inter-departmental reporting.
 - ✓ Participated in the **Africa Connected Summit** and **East-Africa Sub-Regional Forum on AI**, engaging with regional tech leaders and innovations.
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INTERESTS

- Exploring emerging frameworks in full stack development

- Writing technical articles on system architecture and cybersecurity
 - Volunteering in community digital literacy programs
 - Participating in tech meetups and hackathons
 - Studying entrepreneurship and startup ecosystems
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REFEREE

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