SABILA OSMAN
IT Professional & Software Developer
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PROFESSIONAL SUMMARY

Innovative **IT professional and software developer** with over **three years of experience** in **software development, IT support, network management, and IoT solutions**. Skilled in **Python (ML), Flutter, React, and microcontroller programming**, with a strong passion for building **scalable applications** and **AI-driven solutions**. Adept at **mentoring and training**, with experience leading software development workshops and guiding aspiring developers. Committed to delivering **technology solutions that enhance efficiency and user experience**.

TECHNICAL SKILLS

Software & Web Development

- **Programming Languages:** Python (ML), PHP, HTML, CSS, React, Dart

- **Mobile & Database Technologies:** Flutter, Firebase, SQL, WordPress

- **Web Technologies:** Responsive web design, UI/UX principles, API integrations

IoT & Hardware

- **Embedded Systems:** Arduino, Microcontroller programming, Sensor integration

- **Automation & Monitoring:** RFID-based tracking, Smart water metering

IT Infrastructure & Support

- Network management, Troubleshooting, CCTV installation

- IT asset management, Cybersecurity awareness

Key Competencies

- Creative problem-solving, Analytical thinking, Rapid prototyping

- Mentorship & Technical training

PROFESSIONAL EXPERIENCE

IT Lead/ Software Developer | Maasai Consults Ltd

June 2024 – Present

- Configured **network devices** (routers, switches, access points) to optimize connectivity as well as installed and configured CCTV systems.

- Resolved **network and system issues**, minimizing downtime for end-users.

- Assisted in developing and maintaining mobile/web apps.

- Provided IT support and troubleshooting for hardware/software issues.

IT Personnel | Dana Hotel

January 2024 – April 2024

- Upgraded **digital infrastructure**, improving guest experiences and **enhancing operational efficiency**.

- Provided **technical support** in a fast-paced hospitality environment, ensuring seamless IT operations.

Network Support Assistant | Cincom Systems Ltd

August 2023 – March 2024

- Designed and delivered **mentorship programs** for students and professionals in networking and software development.

- Managed **network infrastructure setup, optimization, and troubleshooting** for diverse clients.

- Implemented **CCTV surveillance systems**, strengthening security monitoring capabilities.

Research Associate & Software Developer | KIU CoEEI

March 2023 – August 2023

- **Developed user interfaces** for Arduino-based IoT projects, improving real-time monitoring solutions.

- Designed and implemented a **Waste Management Software**, optimizing **data analysis for environmental research**.

- Conducted **data analytics** for waste management, providing insights for sustainable solutions.

Secretary & Technical Support Officer | Netplan Solutions Africa Ltd

February 2020 – January 2021

- Provided **IT support, troubleshooting, and maintenance** for company systems.

- Designed and maintained **websites and mobile applications** for clients.

- Conducted **digital security training and audits**, ensuring robust cybersecurity measures.

KEY PROJECTS & INNOVATIONS

IoT & Hardware Solutions

- **Smart Water Meter & Billing System** – Arduino-based automated water usage tracking and billing system.

- **RFID-Based Monitoring System** – Secure **access control and asset tracking** solution.

- **Waste Management Solution** – Sensor-based smart bin monitoring with **real-time mobile alerts**.

Software Development

- **Crop Disease Detection (Python/ML)** – AI-driven system achieving **85% accuracy** in disease identification.

- **Smart Applications** – Developed a **recipe app (Flutter/Firebase)** and a **gas distribution system** for SMEs.

- **Web Development** – Created **responsive websites** using **WordPress, PHP, HTML, CSS, and React**.

HACKATHON ACHIEVEMENTS

HerVoice Nexus Project | Women of Uganda Network Hackathon

- **Award:** $500 prize winner

- **Innovation:** Developed an **offline AI-powered information system** for underserved communities.

Offline SMS AI First Aid System | Africa's Talking Hackathon

- **Award:** $25 prize as a team contributor
- **Impact:** Created an **SMS-based healthcare support system** for areas with limited internet access.

EDUCATION

Bachelor of Information Technology
Kampala International University | *2020 – 2023*

UACE & UCE Certificates
Lugazi Mixed School Naalya | *2013 – 2016*

LANGUAGES

- English, Kiswahili, Luganda, Sabiny

REFERENCES

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