

FATUMA JUMA MMANGA

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📍 Dar es salaam, Tanzania

📅 2001/03/11

🚩 Tanzanian

♀ female

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🐙 github.com/Fatuma-Mmanga

Education

11/2021 – 07/2024
Dar es salaam,
Tanzania

Bsc.Computer system and networks.
ARDHI UNIVERSITY

06/2019 – 05/2021
Mtwara, Tanzania

Advance Certificate of secondary School(ACSEE).
MTWARA TECHNICAL SECONDARY SCHOOL.

Professional Experience

01/2025 – present
Mbeya, Tanzania.

Software developer.
Takbiir Enterprise LTD.

- Designing, developing, and maintaining the company's website and point of sale (POS) system to improve business operations and enhance customer experience
- Developing web applications using **React, PHP (Laravel), JavaScript**, and **MySQL**
- Managing version control and collaboration through **GitHub**
- Communicating and coordinating tasks using **Slack**
- Updating and maintaining website content regularly
- Writing efficient database queries and managing data using **MySQL**

07/2024 – 10/2024
Dar es salaam,
Tanzania

IT Specialists
Protec safety and security.

- Created an **Excel-based system** for recording and calculating payment records
- Managed and controlled the **biometric attendance system** using **RAMS software**
- Generated and submitted **email reports** for attendance documentation
- Provided **technical support** to staff by troubleshooting and resolving computer-related issues
- Assisted in improving daily IT operations and ensuring smooth workflow across departments

07/2023 – 10/2023
Dodoma, Tanzania.

Practical Industrial Training
e-Government Research Innovation and Development Center.

- Developed a complete system to manage electric outlets, including a **web application (using Python, Angular, and Vue.js)** and a **mobile application using Flutter**
- Programmed and integrated **Arduino** for hardware control and automation
- Designed and simulated electronic circuits using **EasyEDA, Proteus**, and **Fritzing**
- Configured and deployed a **Raspberry Pi** as a local server for IoT system integration
- Designed and simulated secure network infrastructures using **GNS3** and **Cisco Packet Tracer**

- Gained hands-on experience in **IoT**, **networking**, and **embedded systems**

Skills

Software Development.

Languages:

- JavaScript, PHP, SQL

Frameworks & Libraries:

- Flutter (for mobile development)
- React, Laravel (for web development)

Databases:

- MySQL, Firebase Realtime Database & Firestore

Tools & Platforms:

- Git, GitHub, GitLab, Postman
- Firebase (Authentication, Hosting, Cloud Functions)
- AWS, Microsoft Azure

UI/UX Design:

- Application UI design using **Figma** and **Gamma**
- Poster and graphic design using **Canva** and **Adobe Photoshop**.

Soft Skills:

- Teamwork and collaboration
- Problem-solving
- Adaptability and flexibility
- Strong communication skills

Networking Engineer & Cybersecurity.

Networking Skills:

- Configuration and management of **switches**, **routers**, and **servers**
- Designing and maintaining secure and efficient **network infrastructures**
- Hands-on experience with **network simulation tools** like GNS3 and Cisco Packet Tracer
- Basic experience in setting up and managing **LAN/WAN** environments

Computer & System Maintenance:

- **Software maintenance:** Installation, updates, and troubleshooting of operating systems and applications
- **Hardware maintenance:** Diagnosing and fixing computer hardware issues
- **Network maintenance:** Monitoring network performance and resolving connectivity issues
- **Security maintenance:** Implementing basic security measures to protect systems and data

Cybersecurity & Digital Forensics :

- **Digital forensic enthusiast** with foundational skills in identifying and responding to cyber threats
- Familiar with analyzing **digital artifacts** such as system logs, emails, and metadata
- Understanding of basic **incident response** and **threat detection** practices
- Interest in **cyber defense tools** and digital investigation techniques

Languages

- English
- Swahili

Certificates

- IOT Certification program by DTBI held june 2024.
- Introduction to CyberSecurity Bootcamp-Cohort 6 by Cyber Talents held 17 march-20 April 2024.
- Participation in the Stanbic biashara Ideathon held may 2024.
- Participation of Cyber defenders Forum 2024
- Introduction to Cyber Security by Cisco-Cohort 3 held April 2024.
- Introduction to critical infrastructure production(OPSWAT) held 2022.
- Teens in AI Tanzania Techathon Competition, held marc 2024.
- Advanced metasploit Cyber Security course.

Interests

- Reading books.

Projects

03/2024 – 07/2024	IOT-BASED DIGITAL SCALE FOR CROPS WEIGHT MEASUREMENTS. IOT technology project integrated with mobile application to store and manage data of warehouses across Tanzania.
08/2023 – 10/2023	SMART ELECTRIC OUTLET An outlet used to measure and monitor electricity usage.
08/2023 – 10/2023	UNIVERSAL GOVERNMENT RFID SMART CARD. Use of single smart card to access multiple services.
03/2023 – 07/2023	SMART WESTBIN WITH NOTIFICATION. This is wastebin which user collect waste and when is full it provides alert to waste agencies and also have an access multiple services.
08/2023 – 10/2023	USB RUBBER DUCKY Used by Government for security purposes operations.

References

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