



TYRESE MUIGAI

Software Expert &
Cloud Engineer | AI-
Driven Systems

CONTACT

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[LinkedIn](#)

EDUCATION

Jomo Kenyatta University of Agriculture and Technology (JKUAT)
2022 - Present

BSc. Computer Science | Year 4,
Semester 2

Mangu High School
2018 - 2022
Kenya Certificate of Secondary
Education (KCSE) Grade A(minus)

Freds Academy
2015 - 2017
Kenya Certificate of Primary Education
(KCPE)
Achieved 433 marks out of 500 Grade
A (plain)

LANGUAGES

English
Swahili
Intermediate French

PROFESSIONAL SUMMARY

Detail-oriented and versatile *Software Engineer* with strong experience in full-stack development, cloud platforms, and modern software architecture. Skilled in building scalable systems, designing efficient APIs, and delivering end-to-end solutions across web and backend environments. Passionate about integrating DevOps practices and continuously learning new technologies

KEY PROJECTS

GlycoSafe - AI-Powered Diabetes Management App 2024 - Present

Data Engineer & UI/UX contributor

Played a key role in data acquisition, cleaning, and preprocessing to optimize YOLOv8 models for segmentation, classification, and 3D modeling. Designed and refined the data pipeline, ensuring high-quality labeled datasets for maximum model accuracy. Contributed to fine-tuning the machine learning models and improving data augmentation strategies. Additionally, provided input on UI/UX design, enhancing user interaction and experience.

[Website Link](#)

SokoFresh EA - Cold Storage & Inventory Platform 2024- 2025

Full Stack Software Engineer & Dev-ops

- Developed a Progressive Web Application (PWA) to digitize cold storage operations.
- Provides real-time visibility and automated workflows for inventory, equipment, and logistics at an enterprise scale.
- Website Link

[Website Link](#)

CERTIFICATIONS & TRAINING

- AWS Cloud Architect (Ongoing)
- AWS Security Specialty / Cloud Security (Ongoing)

REFERENCES:

Referee Contact Details shall be availed upon request.

Leadership & Experience

Chief Operating Officer (COO) - Byte Flow

- Managed day-to-day tech operations, overseeing cloud deployments, security compliance, and DevOps workflows.
- Worked closely with software engineers to develop AI-powered solutions for clients.
- Negotiated partnerships with real estate and financial organizations to expand market reach.

Tech Consultant - Cybersecurity & Cloud Solutions

- Provided penetration testing services and security audits for SMEs.
- Assisted organizations in migrating to cloud platforms, optimizing high-availability (HA) architectures.
- Conducted workshops on RAID systems, Site Reliability Engineering (SRE), and DevOps automation.

Pioneer Public Relations Officer - Mangu High School Rotary Club

- Spearheaded public relations efforts for the Rotary Club, promoting community service initiatives and charity events.
- Organized and led outreach programs to foster engagement and support for local causes.

Volunteer - Malindi Red Cross

- Participated in humanitarian efforts, including disaster response and community health programs.
- Collaborated with teams to provide aid and raise awareness about emergency preparedness.

Technical Skills

- **Programming:** Python, Go-language, Java, JavaScript, Bash scripting, Rust.
- **Cloud & DevOps:** Google Cloud, AWS, Ansible, Docker & Kubernetes.
- **Cybersecurity:** Threat Modeling, Secure Software Development, Web Application Security, OWASP Practices
- **Software Development:** Full-stack web development, API design, Microservices, System Architecture
 - **Databases:** MySQL, PostgreSQL, Firebase, MongoDB, Redis, SQLite
- **AI & Data Analysis:** Machine Learning (Yolo V8), Data Science & Analysis (NumPy, SciPy, PyTorch, Pandas and Matplotlib)

Let's build the future of technology together!