



# TYRESE MUIGAI

Software Expert &  
Cloud Engineer | AI-  
Driven Systems

## CONTACT

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## 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.](#)
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[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.

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## 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)

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**Let's build the future of technology together!**