



TYRESE MUIGAI

Software Expert &
Cloud Engineer | AI-
Driven Systems

CONTACT

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EDUCATION

**JomoKenya University of
Agriculture and Technology
(JKUAT)**
2022 - 2026

BSc. Computer Science |
Awaiting Graduation

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. **My Professional Portfolio can be viewed from the pasted link: [Kratos Systems Limited](#)**

KEY PROJECTS

[Github link](#)

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](#)

Acquisition OS | AI-Driven Revenue Operations Engine 2026

Full Stack Software Engineer & Automations Expert

- Developed a bespoke lead-to-booking automation system
- utilizing n8n and OpenAI APIs to handle real-time business workflows.
 - Implemented a 60-second response protocol that automated initial lead qualification, CRM logging, and calendar scheduling.
 - Reduced manual sales operations by 80% and significantly improved lead conversion rates through intelligent, context-aware [messaging](#).

CERTIFICATIONS & TRAINING

- Google Cloud
Certified: Associate
Cloud Engineer
- AWS Certified
Solutions Architect
– Associate
(Ongoing)

REFERENCES:

Referee Contact Details shall be
availed upon request.

Leadership & Experience

• Founder & Product Engineer – Kratos Systems

- Built and shipped full-stack applications (React/TypeScript frontends + backend APIs), including inventory/POS and management dashboards.
- Designed REST APIs, data models, and role-based workflows; improved reliability through validation, logging, and error handling.
- Delivered production-ready UI with performance and usability in mind (responsive layouts, reusable components, clean UX).
- Implemented automation and data workflows (integrations, reporting, backups), reducing manual operations and improving accuracy.

Active Member | Rotary Club of Lavington

- Leading community service initiatives and coordinating cross-functional teams for local development projects.
- Managing professional networking events and fostering strategic partnerships within the Rotary International network.

Pioneer Public Relations Officer - Mangu High School Interact 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(Proficient), AWS, Ansible, Docker/K8s
 - **Workflow Automation:** n8n, Make.com, ManyChat, Zapier, LangChain.
 - **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!