Stephen Muiga

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EDUCATION

Jomo Kenyatta University of Agriculture and Technology

Bachelor of Science in Mathematics and Computer Science, Pure Mathematics Major   *Sept. 2020 – December 2024*

EXPERIENCE

Software Developer - Contract   December 2024 – Present

KIFWA

- Focusing on building secure, scalable, and maintainable solutions.

Frontend Developer   Mar. 2025 - June 2025

Pacaya

- I help build and enhance tech-driven solutions, with a priority in SEO, that improve real-time activity tracking and user engagement.

Cohort 8.0 Mentee   April 2024 – December 2024

KamiLimu

- Selected from over 100 applicants with a 35% acceptance rate to join an elite group of 38 mentees for structured mentorship in tech
- My software development project was selected as one of the finalists in the innovation track
- Structured mentorship for university students pursuing tech-aligned courses in Kenya around the pillars: personal development, professional development, innovation and ICT skills, and community engagement

Software Developer Intern   May 2023 – Feb. 2024

Furaha Ventures Limited

- Engineered progressive web applications using Ionic and Angular, integrating IoT sensors and implementing GraphQL APIs for enhanced data handling.
- Led full-stack development initiatives utilizing Azure cloud services while designing intuitive user interfaces for improved application accessibility.

Avionics Intern   Sept. 2023 – Jan. 2024

Nakuja Project | Jomo Kenyatta University of Agriculture and Technology & JICA

- Led the development of IoT-based telemetry systems for the Nakuja N-3 rocket iteration, architecting real-time data streaming solutions using Arduino, Raspberry Pi, and ESP32 to monitor critical flight parameters and detect anomalies.
- Engineered and implemented the parachute deployment system for the third-generation Nakuja rocket, contributing to successful flight tests in collaboration with JICA and Jomo Kenyatta University of Agriculture and Technology.

Web Developer   Oct. 2023 – Nov. 2024

Rundomlabs Digital

- Spearheaded the development and maintenance of client websites using WordPress, with a focus on the Infiscope platform https://infiscope.co.ke/
- Delivered customized web solutions through close client collaboration, ensuring timely deployment and alignment with business requirements.

Undergraduate Industrial Attachment   May. 2023 – Aug. 2023

Nyandarua County Assembly

- Implemented a library management system that achieved 40% faster processing speeds and 25% error reduction, leading the assembly's transition to paperless operations.
- Developed an HR management system that automated committee scheduling processes, resulting in 30% improved operational efficiency.

PROJECTS

Smart Warehousing | *Ionic, Python, Angular, PostgreSQL, REST API*
- Developing a progressive web application using Django REST framework with Angular as the frontend https://github.com/emuiga/anga-frontend
- Building a hardware system using DHT22 sensors and ESP32 for tracking warehouse conditions variables

Innov8Pulse | *React, Firebase, Smart Contracts*
- Platform that allows hackathon participants to showcase their projects, track contributions, and receive feedback and mentorship from industry experts.
- Through blockchain, the platform also provides a way to assign value to projects through tokens, ensuring accountability and ownership over innovative ideas.
- Project selected as a finalist in a cut-throat competition in the KamiLimu Mentorship program dueto the high quality of it's ideation, architecture and presentation. https://github.com/innov8pulse/innov8pulse-main

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, HTML/CSS, Python, SQL, Java, C/C++
Frameworks: Angular, React, NextJs, NestJS, Node.js, Vue, Ionic
Tools: Git, PostgreSQL, Keycloak IdP, Docker, REST APIs, WordPress, Postman
Other Skills: Web application security, Creative writing, Technical writing