

# Stephen Muiga

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## EDUCATION

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**Jomo Kenyatta University of Agriculture and Technology**

Graduated 2024

*B.Sc. Mathematics & Computer Science (Pure Mathematics Major)*

## EXPERIENCE

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**Co-founder & Full Stack Engineer**

July 2025 – Present

*Origin HQ*

- Co-founded a software company with a small team, conducting market research and speaking directly with businesses in Nakuru to identify problems worth solving.
- Built tools tailored to client workflows, led content creation including the company website, and contributed across design and product development.
- Designing and developing full-stack web applications with responsive, accessible, and SEO-optimized user interfaces.
- Won the E4C AI Pilot Competition 2026 as part of the Origin team, placing first overall against 33 international teams.

**Stack:** TypeScript, Next.js, React, TailwindCSS.

**Software Developer**

Dec. 2024 – Present

*KIFWA*

- Engineered secure and scalable clearing and forwarding web applications, digitizing manual workflows and reducing processing times by 35%.
- Built a customs bond application platform enabling agents to submit and manage bond applications with automated premium calculations, certificate generation, and payment processing.
- Implemented payment gateways including M-Pesa, streamlining the process for Kenya's clearing agents, insurance companies, and importers.
- Optimized frontend components, reducing load times and improving user experience across multiple devices.

**Stack:** Next.js, React, Shadcn, Keycloak, Postman.

**Frontend Developer**

Mar. 2025 – June 2025

*Pacaya*

- Developed SEO-optimized user interfaces that increased search visibility and boosted organic traffic by 25%.
- Integrated real-time activity tracking features, increasing user engagement metrics by 40%.
- Built responsive, accessible UI components across the product, improving experience across devices.

**Stack:** Next.js, NestJS, PostgreSQL.

**Software Developer Intern**

May 2023 – Feb. 2024

*Furaha Ventures Limited*

- Built progressive web applications using Ionic and Angular, integrating IoT sensors and GraphQL APIs for real-time data insights.
- Developed frontend features for IoT-enabled warehouse management systems, enabling real-time tracking of farm produce and reducing wastage.

**Stack:** Ionic, Angular, GraphQL, Azure, PostgreSQL.

**Avionics Intern**

Sept. 2023 – Jan. 2024

*Nakuja Project | JKUAT & JICA*

- Designed IoT-based telemetry systems for the Nakuja N-3 rocket, enabling real-time monitoring of critical flight parameters.
- Built parachute deployment system contributing to successful third-generation rocket flight tests.

**Stack:** Arduino, Raspberry Pi, ESP32, Python, React.js.

**Industrial Attachment**

May 2023 – Aug. 2023

*Nyandarua County Assembly*

- Built a library management system achieving 40% faster processing speeds and 25% fewer errors.
- Developed an HR system automating committee scheduling and attendance recording for MCAs, improving efficiency by 30%.

**Stack:** PHP, MySQL, Bootstrap.

## AWARDS

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### First Place – E4C AI Pilot Competition

2026

*Engineering for Change (Global | 33 Teams)*

- Built E4CInsights, an AI pipeline synthesising policy briefs from World Bank, WHO, and E4C datasets to surface actionable insights for global development practitioners.
- Placed first overall and awarded a \$2,500 prize against 33 international teams.

## ADDITIONAL EXPERIENCE

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### Fellow

May 2025 – Present

*Open Hands Initiative*

- Selected as a fellow for the Open Hands Initiative virtual programme, focused on leadership, social impact, and professional development across Africa.

### Mentee

April 2024 – Nov. 2024

*KamiLimu*

- Selected as 1 of 38 students across Kenyan universities for an 8-month structured mentorship programme focused on upskilling ICT students for global competitiveness.
- Designed a project to connect students with industry experts post-hackathon; selected as a finalist in the Innovation and ICT track.

**Skills:** Project Management, Public Speaking, Pitching, JavaScript, Git.

### Freelance Developer

2023 – Present

- Website builds, performance optimization, and design for small businesses – improving lead generation and online presence for clients.

## FEATURED PROJECTS

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**KIFWA Clearing Agents Platform** [Visit](#) | *Next.js, TailwindCSS, Spring Boot*

- Multi-tenant platform with three integrated systems for clearing agents, insurers, and service providers – streamlining bond purchases, renewals, and indemnity issuance for 2,000+ licensed clearing agents and member companies.

**E4CInsights** | *AI, Policy Analysis, Next.js*

- AI pipeline synthesising World Bank, WHO, and E4C datasets into actionable policy insights for global development practitioners. First-place winner, E4C AI Pilot Competition 2026.

**The Nakuja Project** [Visit](#) | *Embedded Systems, PCB Fabrication, Rocketry*

- Avionics and recovery systems for the N-3 sounding rocket. Contributed to subscale system tests, PCB fabrication, and parachute ejection mechanisms.

## TECHNICAL SKILLS

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**Languages:** TypeScript, Python, SQL, Java, C/C++, HTML/CSS

**Frameworks:** React, Next.js, Angular, NestJS, Node.js, Ionic

**DevOps & Cloud:** Docker, AWS (EC2, S3), PostgreSQL, Keycloak, CI/CD

**Tools:** Git, REST APIs, GraphQL, Postman, WordPress

**Other:** Project Management, Data Analysis, Testing