

SIMON KAGWE

SOFTWARE ENGINEER

@ kagwesimon77@gmail.com

🔗 <https://rb.gy/q6ovuh>

Skills

Python (NumPy, SciPy)

JavaScript (ES6+)

C/C++

HTML5/CSS3

React/TypeScript

Node.js/Express.js

Tailwind CSS/Sanity CMS

Raspberry Pi/Arduino

Agile Collaboration

Problem Solving

Certifications

AI Career Essentials

ALX

April 2024

🔗 <https://rb.gy/f9p6sl>

Networking Devices and initial Configuration

Cisco

April 2024

🔗 <https://rb.gy/redt8w>

UI/UX Design

Udemy

Nov 2022

🔗 <https://rb.gy/dfako8>

Machine Learning

Udacity

Nov 2022

🔗 <https://rb.gy/t2rfst>

Back-end Web Development

Microsoft

May 2023

🔗 <https://rb.gy/t2rfst>

Languages

English (C2)

Swahili(C2)

Summary

Adaptable software engineering student (BSc candidate) specializing in **full-stack development, AI/ML solutions, and hardware-software integration**. Proven ability to lead innovative projects (e.g., real-time haptic communication device) and optimize systems using Agile/DevOps methodologies. Combines technical expertise in **Python, JavaScript, C/C++, and React** with strong research, UX design, and cross-functional collaboration skills.

Projects

Wearable Haptic Device for Deaf Communication Sep 2024 – Mar 2025

- Developed a real-time system translating speech to Morse code via tactile feedback using **Python/C++**, achieving **>95% accuracy** through signal processing (NumPy/SciPy).
- Integrated **Raspberry Pi** (audio) and **Arduino** (haptic actuators), conducting **user testing** with deaf community to refine UX.
- Tools: PyAudio, Proteus*

Agency Website

Apr 2025 – Jun 2025

🔗 <https://rb.gy/9luw5u>

- Built a responsive **React/TypeScript** platform with Sanity CMS, reducing load time by **40%** and boosting mobile engagement by **25%**.
- Implemented dark/light mode, Calendly/WhatsApp integrations, and dynamic portfolio

Education

Murang'a University of Technology

2021 – 2025

BSc Software Engineering

- Relevant Coursework:** Algorithms, AI/ML, HCI, Data Structures

Experience

Ajira Digital

May 2024 – Aug 2024

Teacher & Technical Trainer

- Trained 50+ students in **UI/UX tools (Figma/Canva)**, **data annotation**, and freelancing, improving engagement by **50%**.
- Performed tech support: hardware setup, network troubleshooting, and software maintenance.

Melody Traders

Jun 2023 – Sep 2023

Sales Associate

- Drove 100+ daily sales through needs analysis and product demonstrations.