

Sidney Muriuki

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EDUCATION

Jomo Kenyatta University of Agriculture and Technology

Bachelor of Science in Mathematics and Computer Science

Juja, KE

Sep. 2022 – Present

Power Learn Project

Software Development

Nairobi, KE

Feb. 2025 – Jun. 2025

EXPERIENCE

AI Automation Engineer Intern

Statsspeak Group Ltd.

Feb. 2025 – Jul. 2025

Nairobi, KE

- Designed and deployed an automated lead-generation workflow using n8n, validating and enriching 500+ business records and improving outreach targeting efficiency by 40 percent.
- Built an automated AI-driven email outreach system, reducing manual outreach time by 60 percent and increasing engagement rates.
- Developed an AI-powered database assistant using Python and Chainlit, enabling natural-language queries and reducing data retrieval time from minutes to seconds.
- Conducted applied research and produced a comprehensive vaccine-industry report covering health infrastructure, supply chains, and partnerships to support data-driven client decisions.
- Collaborated with cross-functional teams to deploy workflow automation and improve data processing accuracy.

LEADERSHIP EXPERIENCE

Community Manager Lead

Salamander Tech Hub

Jul. 2025 – Present

Nairobi, KE

- Led an open-source learning community through technical sessions and projects.
- Reviewed and coordinated GitHub contributions for quality and consistency.
- Mentored members on Git, GitHub, and collaborative development practices.
- Organized workshops and coding challenges to strengthen practical skills.

PROJECTS

SmartBiz | *Django, Python, Sqlite, Bootstrap, JavaScript*

- Built a sales and inventory management platform for small and micro-businesses with real-time analytics.
- Implemented product, sales, and inventory tracking with automatic low-stock alerts.
- Designed a subscription system with tiered plans and admin-controlled user management.
- Developed role-based dashboards for business owners and platform administrators.
- Optimized performance for low-bandwidth environments with mobile-responsive design.

AI Research Assistant | *Python, LangChain, Google Gemini API, FAISS, Gradio*

- Developed a multi-document AI research assistant enabling question answering over uploaded PDFs.
- Implemented semantic search using FAISS vector embeddings for accurate document retrieval.
- Integrated Google Gemini for retrieval-augmented generation with source attribution.
- Built a chat-style interface with conversation memory and collapsible source references.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, HTML/CSS

Frameworks: Django, Flask, Bootstrap

Automation Tools: n8n, Flowise

Developer Tools: Git, Google Cloud Platform, Visual Studio, PyCharm, Gradio, Langchain

Libraries: pandas, NumPy, Matplotlib