

Sidney Muriuki

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github.com/mathncode-sid

EDUCATION

Jomo Kenyatta University of Agriculture and Technology <i>Bachelor of Science in Mathematics and Computer Science</i>	Juja, KE Sep. 2022 – Present
Power Learn Project <i>Software Development</i>	Nairobi, KE Feb. 2025 – Jun. 2025

EXPERIENCE

AI Automation Engineer Intern <i>Statsspeak Group Ltd.</i>	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 <i>Salamander Tech Hub</i>	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 <i>Django, Python, Sqlite, Bootstrap, JavaScript</i>
– 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 <i>Python, LangChain, Google Gemini API, FAISS, Gradio</i>
– 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