

# SIDNEY BARAKA MURIUKI

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## Profile

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Motivated and detail-oriented Mathematics and Computer Science student with a growing interest in AI and software development. Recently completed an attachment as an AI Engineer at Statsspeak Company, where I gained hands-on experience in machine learning, data processing, and automation. Skilled in data management, content creation, and digital administration, with a strong track record of leveraging technology to improve efficiency. Quick to adapt, highly organized, and equipped with strong problem-solving and communication skills, making me a valuable asset in dynamic team environments.

## Professional Experience

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### Forage

08/2025 – 08/2025

*British Airways Data Science Job Simulation on Forage*

- Completed a simulation focussing on how data science is a critical component of British Airways' success.
- Scraped and analysed customer review data to uncover findings.
- Built a predictive model to understand factors that influence buying behaviour.

### Statsspeak Group Limited

02/2025 – 07/2025

*AI Automation Engineer Intern*

- Developed an automated lead generation workflow in n8n, enabling the validation and enrichment of 500+ business records, improving outreach targeting efficiency by 40%.
- Built a fully automated outreach system in n8n that personalized and sent AI-generated emails, reducing manual outreach time by 60% and increasing engagement rates.
- Created an AI-powered database assistant using Python and Chainlit to enable natural language querying of company databases, cutting data retrieval time from minutes to seconds.
- Conducted in-depth research and compiled a comprehensive vaccine industry report, covering health infrastructure, supply chains, and partnerships, supporting data-driven decision-making for client projects.
- Collaborated with data scientists, developers, and business teams to deploy AI solutions that improved workflow automation and data processing accuracy.

## Leadership

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### Community Manager Lead

07/2025 – Present

*Salamander Tech Hub*

- Lead a community dedicated to educating students on Open Source programming through weekly technical sessions, hands-on projects, and collaborative learning.
- Oversee and coordinate contributions to the Salamander-Tech-Hub GitHub repository, ensuring code quality, documentation standards, and project progression.

- Mentor members in open-source best practices, version control (Git/GitHub), and collaborative software development.
- Organize and facilitate workshops, coding challenges, and group projects to enhance members' practical skills.
- Foster a supportive and inclusive environment that encourages participation, peer learning, and continuous improvement.

## Skills

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|--|------------------------------------|--|---|
| - Web Development                                  | - Data Science & Analytics         | - Machine Learnin(Python, TensorFlow, PyTorch) | - Workflow Automation (n8n)             |
| - Natural Language Processing (NLP)                | - Data Scraping & Cleaning         | - Predictive Modeling                          | - API Integration & Real-Time Inference |
| - Data Processing (Structured & Unstructured Data) | - Research & Data-Driven Reporting | - Cross-Functional Collaboration               | - Stakeholder Communication             |

## Projects

### Takeaway

Takeaway is a web platform built for the Meetings, Incentives, Collaborations, and Exhibitions (MICE) industry, designed to streamline the sharing of presentations and documents from event speakers to attendees. Whether someone joins an event late or misses a session, Takeaway ensures easy access to essential materials via shareable links. Developed primarily with JavaScript, the platform provides a centralized hub where event resources can be securely distributed, helping attendees stay informed and engaged throughout the event experience.

### Job Fit Alchemist

Job Fit Alchemist addresses the challenges job seekers face in writing strong applications, matching their skills to job requirements, and preparing for interviews. Built with TypeScript and Supabase, the platform provides AI-powered CV and cover letter analysis, job description matching, an interactive career advice chatbot, personalized skills roadmaps, and mock interview practice, delivering actionable insights and tailored guidance to help candidates improve their applications and boost their chances of success.

## Education

<b>Bsc. Mathematics &amp; Computer Science</b> <i>Jomo Kenyatta University of Agriculture and Technology</i>	09/2022 – Present
<b>Software Development</b> <i>Power Learn Project Africa</i>	02/2025 – 06/2025

## Certificates

<b>Python Essentials 1</b> Cisco Networking Academy	<b>Introducing Generative AI with AWS</b> Udacity	<b>AWS Educate Machine Learning Foundations</b> Amazon Web Services
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