

Sydney Wamalwa

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[LinkedIn](#) · [Github](#) · [Portfolio](#)

As a software engineer committed to making a difference through code, I channel my passion for technology into creating positive impact. With a dedication to continuous learning, I aim to leave a lasting mark in all my endeavors.

EXPERIENCE

Zendawa

February 2025 – April 2025

DevOps Engineer Intern

[Certificate of Completion](#)

[Recommendation letter](#)

- Contributed to the development of scalable infrastructure by writing and optimizing code.
- Conducted testing and troubleshooting of software and deployment pipelines.
- Assisted in the deployment of applications and infrastructure automation.
- Debugged system issues to ensure optimal application performance.
- Collaborated with the engineering team to implement DevOps best practices.
- Led backend integration of the **DiabetesAI** web application with Zendawa's Laravel-based portal via FastAPI.
- Developed RESTful endpoints to enable specialist discovery and appointment booking using shared MySQL infrastructure.
- Deployed the DiabetesAI project for browser-based testing on AWS, enabling real-time risk prediction and patient engagement.
- Ensured seamless communication between the Python-based AI engine and Laravel portal while maintaining system security and data integrity.

Summer of Bitcoin Bootcamp — Participant **Remote**

January 2025 – March 2025

- Gained foundational knowledge of Bitcoin and its protocol-level workings.
- Contributed to Bitcoin open-source projects through guided mentorship.

- Enhanced understanding of cryptography, distributed systems, and decentralized finance.
- Participated in workshops, code walkthroughs, and technical challenges.

Software Developer Intern (Remote)

May 2024 – July 2024

Zulip

[Project Link](#)

1. Collaborated on resolving a GitHub issue focused on integrating **GoCD** with the **Zulip open-source project**.
2. Designed and implemented solutions to improve automation and streamline CI/CD workflows, leveraging GoCD's integration capabilities.
3. Contributed to Zulip's codebase by writing clean, modular, and well-documented code following open-source standards.
4. Participated in regular reviews and discussions with the community, enhancing my understanding of distributed team collaboration and open-source contribution workflows.
5. Strengthened skills in **Python**, **Git**, and debugging complex software systems.

Mercedes-Benz BeVisioneers Fellowship

July 2024 -Present

Fellow, BeVisioneers Program

- Selected as one of the global fellows to ideate and prototype sustainable mobility solutions.
- Collaborated with multidisciplinary teams to develop a circular-economy pilot for e-waste management of automotive electronics.
- Presented proof-of-concept to Mercedes-Benz leadership, securing mentorship and seed funding for next-stage development.

Software Developer

Dec 2023 – Feb 2024

The Queen of Peace Initiative, Isiolo, Kenya

[Project Link](#)

1. Web App Development:

- I created the Queen of Peace Initiative web app from scratch.
- The app features an intuitive and responsive interface, highlighting the organization's mission, projects, and impact.
- Sections on peace initiatives, educational programs, and humanitarian aid enhance navigation.

2. Donation Integration:

- I seamlessly integrated payment gateways, allowing direct donations via mobile money and credit/debit cards.
- Ensured secure transactions and compliance with industry standards.

3. Backend Development:

- The backend infrastructure was built using technologies like Python, Flask, and email routing.
- I handled critical components such as user authentication, data storage, and communication with external APIs.

4. Quality Assurance:

- Rigorous testing ensured the web app's stability and identified any issues for timely fixes.

Teaching Assistant

Oct 2023 – Dec 2023

Kibo School of Technology, Nairobi, Kenya

As a Teaching Assistant at Kibo School of Technology, I actively contributed to the educational experience of students. My role encompassed several key responsibilities:

• **Course Support:**

- Assisted instructors in delivering course content effectively.
- Held regular office hours to provide personalized student support.
- Reviewed student assignments and offered constructive feedback.

• **Content Enhancement:**

- Collaborated with the Kibo team to improve content delivery methods.
- Contributed ideas to enhance course materials and activities.

• **Student Interaction:**

- Engaged with students during lectures, labs, and workshops.
- Facilitated discussions, answered queries, and encouraged active participation.

• **Achievements:**

- Received positive feedback from students for approachability and helpfulness.

- Contributed to an improved learning environment by fostering student-teacher interactions.

Software Developer

Dec 2021 – Apr 2024

B&N International, Nairobi, Kenya

[Project Link](#)

- **Web Application Development:**
 - Developed a robust booking and reservation web app from scratch.
 - Designed user-friendly interfaces with seamless workflows.
 - Implemented features for efficient booking management.
- **Maintenance and Enhancements:**
 - Regularly maintain the booking and reservation web app to ensure reliability and performance.
 - Incorporate new features, security patches, and improvements through regular updates.

EDUCATION

African Leadership University

Bachelors in Software Engineering

September 2024 – Present

Kigali, Rwanda

Kibo School of Technology

Undergraduate Diploma in Computer Science

Jul 2023 – Aug 2024

New York, NY

Emobilis

I obtained a certificate in full stack development

May 2019 - Aug 2019

Nairobi, Kenya

Certifications and Training

- **Blockchain Basics** – Coursera, authorized by University at Buffalo – The State University of New York
[Verify Certificate](#)
- **Blockchain Fundamentals V2** – IBM, Issued 6/12/22
[Verify Certificate](#)

- **Track Donations with Blockchain** – IBM, *Issued 6/12/22*
[Verify Certificate](#)
- **Build your Voting Application using Blockchain** – IBM, *Issued 6/12/22*
[Verify Certificate](#)
- **Build your Car Auction Application on Blockchain** – IBM, *Issued 6/12/22*
[Verify Certificate](#)
- **Blockchain Intro** – IBM, *Issued 6/29/20*
[Verify Certificate](#)
- **Internet of Things Intro** – IBM, *Issued 8/22/19*
[Verify Certificate](#)
- **Artificial Intelligence Intro** – IBM Digital Nation Africa
[Verify Certificate](#)

ADDITIONAL

Technical Skills: Python, HTML, CSS, JavaScript, Flask, Excel, R, Java, PHP, MYSQL

Tools: VSCode, Figma, PyTorch, PhpStorm, Android Studio, IntelliJ Idea

Certifications and Training: Blockchain (IBM Digital Nation Africa), Design Thinking (IBM Digital Nation Africa)

Languages: Kiswahili - Native, English - Native

Interests: Climate Change, Coding, Blockchain, Leadership and Governance.