Sydney Wamalwa

sydneywamalwa@gmail.com · +254 714359080 · Nairobi, Kenya

[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   **January 2025 – March 2025**
Remote

- 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   **September 2024 – Present**
Bachelors in Software Engineering   Kigali, Rwanda

Kibo School of Technology   **Jul 2023 – Aug 2024**
Undergraduate Diploma in Computer Science   New York, NY

Emobilis   **May 2019 - Aug 2019**
I obtained a certificate in full stack development   Nairobi,Kenya
[View Diploma](#)

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](#)
- **Artifical 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.