

Sydney Erik Wamalwa

Full Stack Software Developer

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

Professional Summary

Passionate Full Stack Software Developer with 3+ years of experience building dynamic web applications and digital solutions. Proven track record in end-to-end development, performance optimization, and collaborative team environments. Experienced in working with diverse clients and delivering market-ready solutions with strong focus on user experience and technical excellence.

Technical Skills

Frontend Development: HTML5, CSS3, JavaScript, Responsive Design, UI/UX Implementation

Backend Development: Python, Flask, PHP, Java, RESTful API Development

Databases: MySQL, PostgreSQL, MongoDB

DevOps & Tools: Git, Docker, AWS, Firebase, Linux

Performance & SEO: Performance Optimization, Technical SEO Best Practices

Development Tools: VSCode, Figma, PhpStorm, Android Studio, IntelliJ IDEA

Additional Technologies: Express.js, Prisma, PyTorch, Excel, R

Professional Experience

DevOps Engineer Intern | [Zendawa](#) | Nairobi, Kenya

February 2025 – April 2025

- Led full-stack backend integration of DiabetesAI web application with Laravel-based portal via FastAPI
- Developed RESTful API endpoints enabling seamless specialist discovery and appointment booking functionality
- Deployed production-ready applications on AWS for browser-based testing with real-time functionality
- Optimized deployment pipelines and conducted comprehensive testing to ensure system reliability
- Collaborated with cross-functional engineering team to implement DevOps best practices
- Ensured data integrity and security across Python-based AI engine and Laravel portal integration

Software Developer Intern | [Zulip](#) | Remote

May 2024 – July 2024

- Contributed to open-source project by resolving GitHub issues and improving CI/CD workflows
- Implemented clean, modular, and well-documented code following industry best practices
- Enhanced automation capabilities through GoCD integration, streamlining development processes
- Participated in code reviews and collaborative discussions with distributed international team
- Strengthened expertise in Python, Git, and debugging complex software systems

Full Stack Software Developer | **The Queen of Peace Initiative** | Isiolo,
Kenya

December 2023 – February
2024

- Built complete web application from scratch with intuitive, responsive interface
- Integrated secure payment gateways (mobile money and credit/debit cards) with industry-standard compliance
- Developed backend infrastructure using Python and Flask, handling authentication and API communication
- Implemented comprehensive quality assurance testing to ensure stability and optimal performance
- Created navigation-focused sections highlighting organizational mission, projects, and impact

Full Stack Software Developer | **B&N International** | Nairobi, Kenya

December 2021 – April 2024

- Developed and maintained robust booking and reservation web application from ground up
- Designed user-friendly interfaces with seamless workflows for efficient booking management
- Implemented regular maintenance cycles including security patches, feature enhancements, and performance updates
- Ensured application reliability through continuous monitoring and improvement

Teaching Assistant | **Kibo School of Technology** | Nairobi, Kenya

October 2023 – December 2023

- Supported course delivery and enhanced student learning experience in technology courses
- Provided personalized support through regular office hours and constructive assignment feedback
- Collaborated with instructional team to improve content delivery methods and materials
- Received positive student feedback for approachability and effective teaching support

Additional Experience

Fellow, BeVisioneers Program | **Mercedes-Benz**

July 2024 – Present

- Selected as global fellow to prototype sustainable mobility solutions
- Collaborated with multidisciplinary teams on circular-economy pilot for e-waste management
- Presented proof-of-concept to leadership, securing mentorship and seed funding

Participant | **Summer of Bitcoin Bootcamp** | Remote

January 2025 – March 2025

- Gained foundational knowledge of Bitcoin protocol and cryptography
- Contributed to Bitcoin open-source projects through guided mentorship
- Enhanced understanding of distributed systems and decentralized finance

Education

Bachelor's in Software Engineering

African Leadership University | Kigali, Rwanda | September 2024 – Present

Undergraduate Diploma in Computer Science

Kibo School of Technology | New York, NY | July 2023 – August 2024

Certificate in Full Stack Development

Emobilis | Nairobi, Kenya | May 2019 – August 2019

Certifications

- Blockchain Basics – Coursera (University at Buffalo) [Verify Certificate](#)
- Blockchain Fundamentals V2 – IBM (2022) [Verify Certificate](#)
- Track Donations with Blockchain – IBM (2022) [Verify Certificate](#)
- Build Voting Application using Blockchain – IBM (2022) [Verify Certificate](#)
- Build Car Auction Application on Blockchain – IBM (2022) [Verify Certificate](#)
- Artificial Intelligence Intro – IBM Digital Nation Africa [Verify Certificate](#)
- Internet of Things Intro – IBM (2019) [Verify Certificate](#)

Languages

English – Native | Kiswahili – Native

Interests

Climate Change, Software Development, Blockchain Technology, AI/ML, Leadership & Governance