

ESTHER KADENGE

Full-Stack Software Engineer | Digital Innovation Catalyst

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PROFESSIONAL SUMMARY

Dynamic software engineer and proven technical leader with hands-on experience building scalable web applications that solve real-world problems. Currently excelling in my final year at Strathmore University while simultaneously delivering production-ready systems that serve 15+ daily users. Passionate about leveraging technology for social impact, I've led teams of 10+, reduced operational inefficiencies by 40%, and pioneered women-in-tech initiatives. Seeking to drive digital transformation at organizations that value innovation, collaboration, and meaningful impact.

CORE COMPETENCIES

Programming & Development

- **Backend:** PHP, Python (Django), Laravel, Java, C++
- **Frontend:** JavaScript, HTML5, CSS3, React
- **Database:** MySQL, PostgreSQL, Advanced SQL optimization
- **Architecture:** RESTful APIs, Object-Oriented Design, MVC patterns

Cloud & DevOps

- **Platforms:** Microsoft Azure, Google Cloud Platform
- **Tools:** Docker, Git/GitHub, CI/CD pipelines
- **Methodologies:** Agile/Scrum, Test-Driven Development

Leadership & Soft Skills

- Cross-functional team leadership (10+ members)
 - Strategic project management and execution
 - Technical mentorship and knowledge transfer
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EDUCATION

Bachelor of Business and Information Technology | *Strathmore University*
2024 – Present | Final Year, Second Semester
Specialization: Advanced Programming, Database Systems, Agile Development

Diploma in Business and Information Technology | *Strathmore University*
2023 – 2024 | **74% (B)**

Kenya Certificate of Secondary Education | *Moi Forces Academy Lanet*
2019 – 2022 | **Grade B-**
Distinguished Performance: Computer Studies (A), History & Government (A-)

PROFESSIONAL EXPERIENCE

Software Engineering Intern | *Strathmore University Communications Office*
2024 – Present

▢ **Impact-Driven Development**

- **Architected and deployed** a comprehensive Equipment Management & Tracking System using PHP/Laravel/MySQL, serving 15+ staff members daily
- **Achieved 40% reduction** in manual tracking errors through automated workflows and real-time data validation
- **Revolutionized asset management** by integrating QR code scanning with automated alert systems, eliminating time-consuming manual processes
- **Optimized database performance** by 25% through strategic query optimization and indexing strategies
- **Collaborated across departments** to design and implement Django-based automation tools that streamlined internal workflows

▢ **Technical Leadership**

- Led technical documentation and knowledge management initiatives
 - Mentored junior team members on best practices in full-stack development
 - Established coding standards and deployment procedures adopted office-wide
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SIGNATURE PROJECTS

Enterprise E-Commerce Platform

Technologies: PHP, MySQL, JavaScript, Payment Gateway Integration

- Built comprehensive online marketplace with secure user authentication and responsive design
- Implemented robust payment processing system with fraud detection capabilities
- Designed scalable database architecture supporting multi-vendor functionality

Community Outreach Impact Portal

Technologies: Django, JavaScript, React, Data Visualization

- **Partnered with local NGO** to create data-driven dashboard tracking community program effectiveness
 - Developed interactive visualizations that helped secure 30% increase in program funding
 - Implemented real-time reporting features enabling data-driven decision making
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LEADERSHIP & ACHIEVEMENTS

☐ Technical Leadership

- **Project Manager, 15th Student Council Senate (2024):** Successfully led cross-functional team of 10 members, delivering all key initiatives on schedule and under budget
- **Founded Women-in-Tech Initiative:** Launched movement with 30+ active members, organizing monthly hackathons and establishing mentorship programs that connected 15+ women with industry professionals

☐ Competitive Excellence

- **Regional Tech Competition Winner:** Represented Nakuru County in national Girls-in-Tech competitions during high school
- **National Certification:** Creative Arts and Storytelling - recognized for innovative narrative techniques
- **Academic Excellence:** Consistent high performance across technical and business coursework

☐ Community Impact

- **Dining Hall Operations Manager (2020-2022):** Optimized service delivery for 1000+ students, implementing efficiency improvements that reduced wait times by 35%
 - **Coding Instructor & Mentor (2024-Present):** Teaching programming fundamentals to underprivileged youth through community outreach programs
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TECHNICAL CERTIFICATIONS & CONTINUOUS LEARNING

Currently Pursuing:

- AWS Cloud Practitioner Certification
- Azure Fundamentals Certification
- AI/ML Fundamentals Specialization

Completed:

- Advanced Laravel Development
 - Database Optimization Techniques
 - Agile Project Management
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PERSONAL INTERESTS & VALUES

- ☐ **Global Perspective:** Passionate language learner (German, French) with appreciation for diverse cultures and international collaboration
 - ☐ ♀ **Creative Expression:** Competitive swimmer and creative writer, bringing the same dedication and creativity to technical problem-solving
 - ☐ **Community Building:** Active in tech meetups and open-source communities, believing in the power of collaboration to drive innovation
 - ☐ **Lifelong Learning:** Constantly exploring emerging technologies, attending hackathons, and contributing to open-source projects
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PROFESSIONAL REFERENCE

Victor Anyura

Senior Technical Producer, University Relations & Communications

Strathmore University

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"Technology is best when it brings people together and solves real problems. I'm passionate about building solutions that make a meaningful difference in people's lives while pushing the boundaries of what's possible."