

CURRICULUM VITAE

Serphine Adhiambo

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PERSONAL PROFILE

A highly motivated and detail-oriented **Software Engineering** graduate with a passion for web development, machine learning, and software quality assurance. Experienced in developing web-based applications and integrating payment systems. Adept at problem-solving, teamwork, and continuous learning, with a strong foundation in Python, Flask, MySQL, and Git. Seeking opportunities to apply technical skills and contribute to innovative software solutions.

TECHNICAL SKILLS

- **Programming Languages:** Python
 - **Web Development:** HTML, CSS, Flask
 - **Database Management:** MySQL
 - **Version Control:** Git, GitHub
 - **Software Testing & Quality Assurance:** Static & Dynamic Testing Techniques
 - **Machine Learning:** Feature Engineering, Model Evaluation (Random Forest, AdaBoost, Gradient Boosting)
 - **Operating Systems:** Fedora Linux, Windows
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WORK EXPERIENCE

Software Development Intern

NIFTECS COMPANY- KISII

01/05/2023-01/08/2023

- Developed and maintained web-based applications using Flask and SQL.
- Assisted in the integration of web applications.
- Participated in system testing and validation to ensure software quality.
- Worked collaboratively with a team to debug and optimize applications.

Assistant Volunteer Office Administrator

SEP KENYA- SIAYA

14/01/2025– Present

- **Office Management:** Organize office operations, maintain supplies, and ensure a clean and efficient workspace.
 - **Documentation and Filing:** Manage and organize documents, handle correspondence, and ensure compliance with filing systems..
 - **Human Resources Support:** Maintaining employee records.
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PROJECTS

Chronic Kidney Disease (CKD) Prediction System

- Developed a **Flask-based web application** that predicts CKD using machine learning algorithms.
- Implemented **feature selection using Extra Trees Classifier (ETC)** and optimized model performance.
- Achieved **97.5% accuracy** with Random Forest after hyperparameter tuning.

Startup Website Development

- Designed and developed a **simple website for a startup company**.
 - Integrated user-friendly UI.
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EDUCATION

Bachelor of Science in Software Engineering

Kisii University – 2024

CERTIFICATIONS & TRAINING

- **Early Career LaunchPad**–Soft skills such as Time management, Personal Branding and Emotional Intelligence.
 - **Women Take the lead Program**– Entrepreneurship & Leadership Training
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LEADERSHIP & ACTIVITIES

- **Secretary** – Managed administrative tasks and client interactions.

- **Mentorship & Networking** – Actively connecting with industry professionals.
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SOFT SKILLS

- Critical Thinking & Problem-Solving
 - Communication & Team Collaboration
 - Time Management & Organization
 - Attention to Detail
 - Adaptability & Continuous Learning
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LANGUAGES

- English (Fluent)
 - Swahili (Fluent)
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REFERENCES

Calvin Kyondi

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