Nelson Njihia

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Portfolio: https://knelso.github.io/PORTFOLIO/

Professional Summary

Aspiring AI specialist with a strong foundation in software engineering. Passionate about artificial intelligence, machine learning, and secure software development, with hands-on experience in Python, PHP, and data analysis. Founder of Synapse, a tech startup focused on AI security solutions. Currently a junior developer at Jendie Automobiles Limited, where I contribute to software system optimization and modernization efforts.

Technical Skills

- **Programming Languages:** Python, PHP, HTML, CSS, SQL

- **Frameworks & Tools:** Django, Flask, FastAPI, Docker, Git

- **AI & Machine Learning:** TensorFlow, Scikit-learn, NumPy, Pandas

- **Cybersecurity:** Basic security principles, secure coding practices

- **Databases:** MySQL, PostgreSQL

- **Cloud & DevOps:** Docker, Kubernetes (beginner), Apache Server

- **Version Control:** Git, GitHub

Work Experience

Junior Software Developer

Jendie Automobiles Limited | July 2024 - Present

- Contributed to system improvements by exploring containerization and microservices.

- Assisted in developing and maintaining the company's software systems.

- Worked on integrating telematics systems in compliance with NTSA regulations.

Founder & Lead Developer

Synapse | 2024 - Present

- Developing **SynapHive**, an AI-specific dataset refinement and anonymization platform.

- Focused on AI security, fraud detection, and numerical data processing solutions.

- Researching innovative ways to provide essential AI services to tech giants.

Education & Certifications

- **Power Learn Project (PLP) Scholarship in Software Development** (2024)

  - Specialized in AI and machine learning applications.

- **Jomo Kenyatta University of Agriculture and Technology (JKUAT) - Python Programming**

  - Completed in April 2024

- **High School**

  - Completed in 2023

Projects & Research

- **Crowdsourced Traffic & Road Safety App** – Designed an app concept for real-time traffic data collection and hazard reporting.

- **AI-Powered Fraud Detection Model** – Researching an ML model for scam and fraud detection in financial transactions.

Achievements & Interests

- Awarded the **PLP Scholarship** in software development.

- Deep interest in AI ethics, secure coding, and algorithm efficiency.

Languages

- English (Fluent)
- Swahili (Fluent)