

MARY WAIRIMU

Geoinformatics Student & GIS Specialist

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About

Mapping the future with spatial technology and data-driven solutions for sustainable development.

I'm driven by the power of GIS to transform raw spatial data into meaningful insights that can drive policy decisions, urban planning, environmental conservation and disaster management.

Education

Power Learn Project (PLP) Academy

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2025 – (On-going)

Bachelor of Applied Science in Geoinformatics

Technical University of Kenya (On-going)

2021 - 2025

Kenya Certificate of Secondary Education

Bunyore Girls High School

2017 - 2020

Kenya Certificate of Primary Education (KCPE)

Olive Schools

2009 - 2016

Skills

- Excellent communication skills
- Attention to detail
- Ability to collaborate effectively

Programming Languages

I have basic knowledge in programming languages such as Python, JavaScript, C, C++, which I learned through coursework and practical assignments at the Technical University of Kenya as part of my Geoinformatics degree.

- Python
- C++
- C
- Javascript

Experience

Interactive Web Mapping at TUK

GIS Programming Assignment

2025

- Developed an interactive web map centered at Technical University of Kenya using GeoServer, HTML, CSS and JavaScript APIs. The project features clickable popups, multiple basemap options, and custom markers for personal locations.
- I designed the interface for usability and creativity, showcasing practical GIS web development skills.

Flood Risk Assessment Project

Internal Based Learning (IBL)

2024

- Applied GIS techniques to assess flood fatalities using real-life data in ArcGIS mapping.

Interests

- **Artificial Intelligence:** Fascinated by how AI and machine learning work in geospatial applications.
- **Emerging Technologies:** Excited about new tech developments and their real-world applications.
- **Geospatial Innovation:** Exploring how GIS can solve environmental and urban planning challenges.
- **Gaming & Entertainment:** Enjoy gaming (especially Call of Duty) and how technology enhances experiences such as graphical content.