VINCENT KIPYEGON

[Email](#) | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Nairobi, Kenya

PROFESSIONAL SUMMARY

Detail-oriented Geospatial Engineering graduate skilled in spatial data analysis, digital mapping, remote sensing, and topographic data processing. I am proficient in ArcGIS Pro, QGIS, Google Earth Engine, and Blender, with enhanced software development skills through PLP Academy's Software Engineering Program, which I completed in August 2025. Passionate about applying geospatial technologies and coding in climate action, agriculture, and urban resilience.

EDUCATION

B.Sc. Geospatial Engineering

University of Nairobi — Nairobi, Kenya
Graduated: September 2025
Relevant coursework: GIS Applications, Remote Sensing, Spatial Data Analysis, Topographic Mapping

Software Engineering

PLP Academy
Completed: August 2025

Focus: Programming, Web Development, Software Design, Software Testing

PROFESSIONAL EXPERIENCE

Geospatial Research Intern

World Agriculture Forum (WAF), Remote
June 2025 – July 2025
• Conducted geospatial data analysis and mapping to support agroforestry and land restoration projects.

• Utilized remote sensing and GIS tools to assess land cover changes, soil properties, and carbon

sequestration in Makueni County.

• Contributed to research reporting and preparation of geospatial visualizations for sustainable land management decision-making.

Geospatial Attaché

Survey of Kenya, Kericho County Offices

May 2023 – August 2023

• Drafted cadastral and topographic maps using AutoCAD.

• Participated in ground control and cadastral surveys to support accurate data acquisition.

Freelance Geospatial & Data
Specialist

2023 – Present

• Delivered geospatial analysis, digital mapping, and Python scripting projects.

• Built predictive models integrating GIS data with visualization platforms.

• Provided environmental and urban planning insights through geospatial intelligence and data visualization.

• Conducted web scraping and geocoding for various datasets.

LEADERSHIP EXPERIENCE

• Finance Secretary – Geospatial Engineering Students' Association (2024 – 2025), University of Nairobi
• Finance Secretary – Ajira Digital Club (2025), University of Nairobi

• Publicity Secretary – Geospatial Engineering Students' Association (2023 – 2024)
Responsibilities included budget management, event coordination, digital skills training facilitation, and overseeing organizational communications.

SELECTED PROJECTS

➢ Flood scope – Kenya

A web-based platform that analyzes and visualizes flood impacts and risks across Kenyan counties. It calculates flood-affected areas, farmland, and buildings for selected locations and time periods, generates flood risk maps based on environmental factors, and presents the results

through an intuitive, interactive interface for better disaster preparedness and decision-making.

Link: https://elegant-felidae-pyexxy-b79dfd7f.koyeb.app/

➢ Tree health and carbon sequestration analysis - Scalable.

A Google Earth Engine script that assesses tree health and carbon sequestration within a user-defined area using Sentinel-2 imagery. It allows users to draw an area of interest, calculates NDVI to evaluate tree health, estimates above-ground biomass and carbon sequestration over time, visualizes results through maps and charts, and exports annual biomass data as a CSV file.

Link: https://code.earthengine.google.com/bf232284a8eaa08d4d1a2b0bea116a59

➢ Mangrove Vegetation & Temperature Analysis – Lamu County

NDVI and land surface temperature analysis using Sentinel-2 imagery (2nd Place, GESA GIS Week 2024).

➢ Urban Growth Analysis – Eldoret City

Urban sprawl mapping using Sentinel-2 data via the DUNIA platform (Best Project, RCMRD Mjini Hackathon).

➢ Maize Yield Prediction Model – Trans Nzoia County

Modeled maize yield trends using MODIS, CHIRPS, and WorldPop datasets for agricultural planning (2013–2023).

TECHNICAL SKILLS

• GIS & Remote Sensing Tools: ArcGIS Pro, QGIS, AutoCAD and Civil3D, Google Earth Engine, Blender

• Programming & Development: Python, Git, HTML/CSS

• Data Visualization: Power BI, Excel, Google Sheets

• Spatial Analysis: Geocoding, Spatial Modelling, Photogrammetry (Blender)

• Soft Skills: Report Writing, Time Management, Teamwork

• Graphics Design: Adobe Photoshop, Canva

CERTIFICATIONS

✓ Spatial Data Science – Esri MOOC

✓ GIS for Climate Action – Esri MOOC

✓ The Company Series Program – Afretech

✓ Software Engineering Scholarship – PLP Academy

✓ Zero Waste Workshop – UNEP & UN-Habitat

REFERENCES

Available upon request.