

VINCENT KIPYEGON

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Portfolio: <https://pyexxy.github.io/>

Nairobi, Kenya

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## PROFESSIONAL SUMMARY

Detail-oriented Geospatial Engineer 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 expanding software development skills through PLP Academy's Software Engineering Program. Passionate about applying geospatial technologies and coding in climate action, agriculture, and urban resilience.

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## EDUCATION

### **B.Sc. Geospatial Engineering**

University of Nairobi — Nairobi, Kenya

Expected Graduation: September 2025

Relevant coursework: GIS Applications, Remote Sensing, Spatial Data Analysis, Topographic Mapping

### **Software Engineering Program**

PLP Academy

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

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## 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

Remote

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.
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## 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.

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## SELECTED PROJECTS

- **Flood Risk Prediction & Impact Assessment Model**  
Web-based flood prediction and building exposure dashboard using Sentinel-1 and Google Earth Engine.
- **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).

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## 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, Reality Capture)
- Soft Skills: Report Writing, Time Management, Teamwork
- Graphics Design: Adobe Photoshop, Canva

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## CERTIFICATIONS

- Spatial Data Science – Esri MOOC
- GIS for Climate Action – Esri MOOC
- The Company Series Program – Afretech
- Software Engineering Scholarship – PLP Academy (Ongoing)
- Zero Waste Workshop – UNEP & UN-Habitat

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## REFERENCES

Available upon request.