NG'ENO KEVIN KIPYEGON
Geospatial Developer

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PROFESSIONAL SUMMARY

Geospatial Developer with 9+ years' experience designing mission-driven digital solutions for UN agencies, NGOs, and startups. Skilled in rapid prototyping, building map-based web applications (Svelte/React/Leaflet), and geospatial data science workflows (Python, PostGIS, GDAL). Proven track record of translating complex spatial research into actionable, user-friendly tools for humanitarian, environmental, and development operations. Experienced in cloud-native GIS integration, RESTful APIs, and cross-functional collaboration with AI researchers, engineers, and field teams. Passionate about leveraging geospatial innovation to improve access, resilience, and connectivity in underserved communities.

CORE SKILLS

- Programming Languages: Python, R, C#, Php, SQL, Javascript
- Frontend Development: Svelte, React, Leaflet, Mapbox, Tailwind, D3.js, HighCharts, Chart.js
- Geospatial Data Science: GeoDjango, GeoPandas, Rasterio, GDAL, Xarray, QGIS
- Databases & Backend: PostGIS, PostgreSQL, MySQL, FastAPI, Django, RESTful APIs
- Cloud & DevOps: AWS (EC2, RDS, S3), Docker, Git, CI/CD, Jenkins, Coverage
- GIS & Data: Raster/vector workflows, data pipelines, Google Earth Engine
- AI/ML awareness: Scikit-learn, TensorFlow, spaCy, Hugging Face NER, LLMs
- Soft Skills: Rapid prototyping, stakeholder collaboration, technical training

EXPERIENCE

GIS Consultant | Geotechsys Africa: April - June 2025 | Nairobi - Kenya

- Built Django-based geospatial analytics platform for sustainability indicators (CDI, PDI, TDI, VDI).
- Developed REST APIs for geospatial uploads/zonal stats with FastAPI + PostGIS.
- Designed interactive maps using Leaflet.js; automated pipelines via QGIS Server, Rasterio, GDAL, Xarray.
- Delivered exportable reports/visuals for development stakeholders.

IM and GIS Officer | iMMAP - UNDSS: October 2024 – March 2025 | East Jerusalem - Palestine

- Improved geospatial data systems for risk reduction and incident visualization.
- Deployed platform for incident data mapping & downloads supporting UN/humanitarian partners.
- Produced situation reports/advisories enhancing security and humanitarian access.

Application Specialist (GIS) | SWALIM – FAO SOMALIA: September 2019 – December 2024 | Nairobi - Kenya
- Designed 10+ GIS/mobile/web apps for drought, flood, and land monitoring.
- Automated ETL pipelines for rainfall, NDVI, CDI, temperature, and soil erosion datasets.
- Built machine learning workflows for environmental insights.
- Maintained cloud GIS systems with 99.9% uptime via CI/CD.
- Trained government/INGO staff on GIS systems and workflows.

GIS Consultant | iMMAP – UNICEF Malawi/Malawi University of Science and Technology (MUST): November 2023 - March 2024 | (Home based & 1 mission to Blantyre, Malawi)
- Developed Web-GIS platform for emergency preparedness & rapid drone response.
- Customized geodata catalogue system to standardize UNICEF Malawi's datasets.
- Conducted capacity building workshops for government, academia, and partners.

GIS Application Developer | UNITED NATION MISSION IN SOUTH SUDAN: April 2019 - June 2019 | Juba – South Sudan
- Built open-source SDI (GeoNode) for UNMISS operations.
- Documented workflows & recommended robust GIS tools for field projects.

Python Developer | GLTN - UN-HABITAT: January 2019 – May 2019 | Nairobi - Kenya
- Automated CI/CD workflows for STDM 2.0 with Travis, Sphinx.
- Developed new STDM features, UML workflows, and documentation.

EDUCATION
Dedan Kimathi University of Technology: Nyeri, 2011 - 2015
Bachelor of Science in Geomatic Engineering and Geospatial Information System (GEGIS)
Courses: Web Mapping, Databases, Remote Sensing, GIS Programming, Spatial Analysis, Cartography and Spatial Data Infrastructure.
Kenya Institute of Management: Kericho, 2011
Certificate in Business Management
Nishkam Saint Puran Singh Institute: Kericho, 2010
Diploma in Information System Support & Maintenance (City & Guilds)
Moi High School - Kabarak, 2006-2009
Kenya Certificate of Secondary Education

INTERESTS
- Collaborative application development
- Hackathons & humanitarian mapathons
- Research workshops & geospatial innovation

REFEREE
Provided upon request.