

Joseph Thuha Maina

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SUMMARY

Experienced GIS developer with a solid 3.5 years of experience specializing in software development workflows. I possess a strong background in creating data-intensive applications that streamline decision-making processes. I have proven ability to leverage technical skills and analytical abilities to drive project success. I am seeking to leverage these skills and experiences in a challenging GIS developer/analyst/specialist role to facilitate data-driven strategies and contribute to business growth.

EXPERIENCE

GIS Consultant UNDP

November 2022 – Present, New York

- Implemented best practices in GIS mapping and data visualization, ensuring consistent delivery of top-notch analysis products to clients.
- Collaborated with a team of developers to successfully develop GeoHub, meeting all project deadlines and milestones.
- Redesigned and developed a new UNDP DataFutures Exchange backend ETL pipeline, enabling retrieval, transformation, and publication of SDG Indicator Data, resulting in a 60% increase in data processing efficiency.
- Supported the design and development of technical specifications of different cloud based GeoSpatial Systems to support GeoHub and SDG integration team.
- Developed and delivered high-quality geospatial analysis products utilizing advanced GIS software tools.
- Enhanced and maintained production data pipelines, resulting in a massive increase in deployment efficiency and reductions in software downtimes.

GIS Intern UNDP

January 2021 – October 2022, New York, NY

- Supported the UNDP GeoHub team in the development of GeoHub, an ecosystem of cloud based geospatial services and applications designed to support UNDP, other UN agencies and policy makers worldwide with informed insights in the context of SDGs.
- Collaborated with a diverse team of GIS engineers, software developers, interns, and external consultants to enhance geospatial services and expertise for the organization's SDG Integration Geo-Analytics team.
- Designing, Building and Testing front-end and backend geospatial software services in and for GeoHub.

PROJECTS

GeoHub

UNDP • <https://geohub.data.undp.org> • January 2022 – Present

- Enhanced functionality of GeoHub by developing and implementing features for both backend and frontend services.
- Developed the supporting services in relation to GeoHub.
- Implemented CI/CD pipelines utilizing GitHub Actions and Azure DevOps to automate the deployment process for GeoHub platform and its supporting services.

EDUCATION

Bachelor of Science in GeoSpatial Engineering

The Technical University of Kenya • Nairobi, Kenya • 2023

CERTIFICATIONS

Python for Data Science and AI

Coursera • 2020

- Certificate for a short course I took in Data Science and Artificial Intelligence
- https://www.credly.com/badges/1c5b7fbe-b042-4185-b0de-9f974e973179?source=linked_in_profile

Python TestDome Certificate

TestDome • 2020

- <https://www.testdome.com/certificates/6614816c3c454aa3a87770debf6204a3>

SKILLS

Front End Tools: HTML/CSS/JavaScript/TypeScript/React/SvelteKit

Backend Tools: Python/Java/NodeJS/FastAPI/Django/Flask

Databases: PostgreSQL/MySQL/MongoDB/Firebase

CI/CD: Github Actions/Azure DevOps

Cloud Services: Microsoft Azure/Google Cloud Platform/AWS

Other Relevant Skills: Bash Scripting/Docker/Kubernetes/Linux