

Vusumuzi Tshepang Gaeatlholwe

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EDUCATION

University of Johannesburg	Auckland Park Campus
<ul style="list-style-type: none">PhD Energy Studies (GIS & System Dynamics)	2022 - 2024
<ul style="list-style-type: none">MA in Geography (GIS & Remote Sensing)	2019 – 2021
<ul style="list-style-type: none">BA Hons in Geography (GIS and Remote Sensing)	2018
<ul style="list-style-type: none">BA in Geography and Anthropology	2015 – 2017

WORK EXPERIENCE

Woolpert Africa	Johannesburg
Geospatial Solutions Developer intern	June 2023 – June 2024
<ul style="list-style-type: none">Develop and implement geospatial software applications usingUtilize geospatial libraries and APIs (e.g., Mapbox, Leaflet, Google Maps) to create interactive maps and spatial data visualizationsUse data analysis tools and frameworks (e.g., TensorFlow, PyTorch) to derive insights from complex geospatial datasets.Develop creative solutions for complex geospatial challenges, leveraging technical skills and innovative approaches.Coordinate with cross-disciplinary teams and stakeholders to ensure successful project outcomesTroubleshoot and resolve issues related to software performance and data accuracy.	

CERTIFICATIONS

ALX – Africa	Nairobi, Kenya
<ul style="list-style-type: none">Certificate in Software Engineering (Backend)	2023 - 2024

SKILLS

Technical skills

- GIS Skills:** Spatial Analysis and Modelling, Web GIS Development, Geodatabase Management
- GIS Tools:** ESRI software, Quantum GIS, Field Maps, Survey123, Global Mapper, Bentley MicroStation
- Developer Tools:** Git, Docker, VS Code, Visual Studio, PyCharm
- Languages:** Python, C, JavaScript, SQL (MySQL, PostGIS), Linux
- Frameworks:** React, Node.js, Flask, FastAPI
- Libraries:** pandas, NumPy, Matplotlib, Mapbox (GL JS), Leaflet, Google Maps, OpenLayers, Esri Web Suite
- Cloud Computing:** Oracle, AWS (student)

Transferable Skills

Strong analytical and quantitative skills, Detail-oriented, Adapt quickly to new environments

REFERENCES

University of Johannesburg	Auckland Park Campus
<ul style="list-style-type: none">Prof. K.E Langerman	Lecturer (Energy studies)

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Woolpert Africa

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Johannesburg

Tech Lead

Team Lead