
Mondli Buthelezi

Data Analyst/ Scientist and/ Python Dev

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SKILLS

Programming Languages: HTML5, CSS3, JavaScript, Python, C#, Java

Libraries & Frameworks: PostGres, Unity 3D, JDBC, MySQL, Apache Spark, MS SQL, AWS

Tools & Platforms: Google Earth Engine, GitHub, PgAdmin, GeoNode, Django, Looker Studio, Power BI, Microsoft Power Apps, Looker

Other Technical Skills: MS Office, ArcGIS, QGIS, HEC-RAS, Driver's License Code 10, Power Query, Dashboard Metrics, Data Validation, Deep Learning, Remote Sensing, Predictive Analytics, Statistical Data Analysis, Data Integrity, Statistics, AI, Data Visualization, NLP, Teamwork, GPS, Data Engineering, ORM, Data Manipulation, Docker, Data Science, Django REST, Relational DBs

EXPERIENCE

Digby Wells Environmental, Gauteng - *Database Administrator*

NOV 2023 - PRESENT

- Maintaining GIS and related data and developing web mapping applications
- Monitoring and improving database performance and capacity using SQL, Python, MS Excel
- Data analysis using Python libraries, AI, ODK Briefcase
- Using Microsoft Power Apps to manage company assets.
- Making maps using ArcGIS, QGIS and Global Mapper

Kartoza, Johannesburg, Gauteng (Hybrid) -, *GIS Developer Intern*

MAY 2023 - SEPTEMBER 2023

- Building projects using QGIS, PostGIS, GeoNode, Geocoding Cartography and Spatial analysis.
- Coding projects using SQL, Python, JavaScript, Docker and Django.

Sibanye Stillwater Digital Mining Laboratory (DigiMine), Johannesburg, Gauteng - *Researcher*

MARCH 2022 - MAY 2023

- Collect, record, analyse, interpret data analysis results, and draw inferences and conclusions.
- Use research results to write reports, papers, and reviews and present findings to the committee, journals, and conferences
- Assist the lab in managing different operating systems.

Project Codex, Cape Town, Western Cape - *Junior Java Developer*

FEBRUARY 2021 – NOVEMBER 2022

- Designing, implementing, and maintaining Java-based applications.
- Test and debug new applications and updates.
- Contributing to all phases of the development lifecycle
- Maintain up-to-date code documentation and participate in code reviews.

EDUCATION

The University of the Witwatersrand, Johannesburg, Gauteng - *MSc GIS & Remote Sensing*,

MARCH 2022 - PRESENT

Implementation and use of geospatially-based systems with an emphasis on the acquisition, integration, and analysis of data within a diverse range of disciplinary fields.

Project CodeX - *NQF5 Information Systems*

FEBRUARY 2021 - FEBRUARY 2022

Exploration of modern web frameworks eg. React.JS, Vue.JS, or a bespoke programme for an organization

University of Zululand, Richards Bay, KwaZulu Natal - *BSc Hons Hydrology*

MARCH 2019 - AUGUST 2020

The degree focused on Water Resources Management, Groundwater, and Surface Water Modelling

University of Zululand, Richards Bay, KwaZulu Natal - *BSc Geography & Hydrology*

FEBRUARY 2016 - NOVEMBER 2018

The degree focused on GIS, Environmental Management, and Hydrological Modelling.

Masibumbane High School, KwaZulu Natal - *Matriculation*

DECEMBER 2011

ACHIEVEMENTS

- DigiMine Representative at Mining Indaba 2023
- DigiMine Best Research Idea - 2022
- Completed Research Proposal and Project Ahead of Schedule - 2022/3

LANGUAGES

- English - Expert
- Zulu - Native
- Xhosa - Proficient
- Swati - Proficient
- Tswana - Good

REFERENCES

References will be provided upon request