SIPHOSETHU RULULU
SOFTWARE ENGINEER

LinkedIn

PROFILE

As an aspiring software engineer, I am eager to apply my analytical, problem-solving, and coding skills to a software engineering internship. With a foundation in Python, SQL, and experience in data management and analysis, I am excited to contribute to developing robust software solutions. I aim to leverage my knowledge of database systems, strong logical reasoning, and proficiency in development tools to build efficient applications and support team goals. I am committed to gaining hands-on experience in a collaborative and innovative engineering environment.

WORK EXPERIENCE

Data G Systems Assistant
Ikamva Youth
April 2019 – November 2024

- Automated the collection and processing of session attendance data.
- Performed data analysis and trend identification on participant statistics using analytical methods.
- Managed and updated a central database of learner and parent contact information.
- Implemented data integrity checks to monitor and ensure the accuracy of stored information.
- Analyzed participant data to identify trends in attendance, utilizing statistical methods and creating visualizations with Matplotlib/Seaborn to communicate findings.
- Managed a central SQL database, executing complex queries to update records and ensure referential integrity across tables.
- Implemented data validation rules within the ETL process, flagging anomalies and improving overall dataset accuracy for downstream analysis

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QUALIFICATIONS

Explore Academy
Data Science
2023-2024

Synergy Corporate Consulting
Business Administration
2021-2022

University of South Africa
Accounting Science
2024 (12 Months)

Capaciti Tech Career Accelerator
Information Technology Certificate
2019-2021

SOFT SKILLS

- Problem-Solving
- Attention to Detail
- Collaboration:
- Initiative & Self-Learning
- Critical Thinking

TECHNICAL SKILLS

- Python, SQL, R, JavaScript, HTML, CSS
- Data Modeling, Querying (SQL), Data Cleaning & Validation
- Tools & Platforms: Git, GitHub, VS Code, Jupyter Notebook, AWS.

PROJECTS

Healthconnect app
IkamvaYouth
2025

- Sourced, cleaned, and structured a novel dataset using Python (Pandas), handling missing values and standardizing formats.
- Built the front-end with HTML, CSS, and JavaScript to create interactive lessons and visualizations that display the cleaned data
- Developed learning content that uses the dataset to demonstrate core concepts like