SIYABONGA NGCOBO

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LinkedIn | GitHub | Portfolio

OBJECTIVE

As a Data Engineer and Software Engineer with expertise in Python, Java, C++, JavaScript, HTML/CSS, and data tools such as Pandas, Matplotlib, and SQL, I specialize in building efficient data pipelines and developing innovative software solutions. Skilled in version control with Git and containerization using Docker, I am passionate about data-driven decision-making and creating impactful data visualizations. With strong problem-solving abilities, I am committed to continuous learning and mentoring, and eager to collaborate and contribute to software and data engineering projects. Seeking opportunities to leverage my technical expertise and communication skills in both software development and data engineering to drive success in diverse development environments.

SKILLS AND ABILITIES

- **Programming Languages:** Python, Java, C++, JavaScript, HTML/CSS
- **Data Tools:** Pandas, Matplotlib, SQL
- **Version Control:** Git, Docker
- **Other Technical Skills:** Data cleaning, analysis, visualization, curriculum planning, and mentoring

SOFT SKILLS

- Communication and Collaboration
- Leadership and Mentorship
- Problem-Solving and Analytical Thinking
- Adaptability and Time Management
- Attention to Detail
- Creativity and Initiative

EXPERIENCE

WeThinkCode_

Aspiring Data Engineer | Software Engineering Enthusiast

September 2023 – Present | Cape Town, Western Cape, South Africa

At WeThinkCode_, I am cultivating a robust foundation in both software and data engineering. My journey involves mastering the tools and techniques necessary to build scalable, data-driven solutions and innovative software applications. Recent highlights include:

- Software Engineering Collaboration: Contributed to a team project building interactive robot worlds for brownfields development, with insights shared in the Medium blog post.
- Data Preparation & Cleaning: Hands-on experience transforming raw datasets into analysis-ready formats.
- Programming Proficiency: Advanced skills in Python and Java, as well as expertise in JavaScript, and HTML/CSS.
- Version Control: Leveraging Git for collaboration and efficient project management.
- Data Visualization: Learning to communicate data insights effectively using tools like Matplotlib and Pandas.

Master Maths

Head Science Tutor

July 2021 – September 2023 | Durban, KwaZulu-Natal, South Africa

- Organized and delivered science content for students from grade 4 to 12.
- Trained and mentored new tutors, enhancing their teaching and communication skills.
- Developed curriculum plans and managed student performance tracking.

Mathematics and Science Tutor

February 2019 – May 2021 | Cape Town, Western Cape, South Africa

- Provided one-on-one tutoring for grades 4–12 in mathematics and science.
- Prepared progress reports to monitor and improve student performance.
- Supported onboarding and training of new tutors, fostering collaboration and mentorship.

EDUCATION

WeThinkCode_

Higher National Diploma in Software and Data Engineering

Completion: December 2024

Igagasi High School

National Senior Certificate, (Distinctions: Physical Science and Tourism)

January 2014 – December 2017

ACHIEVEMENTS

- Ranked 3rd in the top 50 for Semester 3 at WeThinkCode_, showcasing exceptional academic performance and technical expertise.
- Received a prestigious ProMaths award for achieving a distinction in Physical Science in Matric, reflecting a strong foundation in analytical thinking and problem-solving.
- Successfully led a team of tutors as Head Science Tutor at Master Maths, improving curriculum delivery and mentoring new tutors, resulting in enhanced student performance across science subjects.
- Played a key role in developing and delivering ETL pipelines during WeThinkCode_ projects, contributing to efficient data processing and analysis.
- Achieved consistent positive feedback from students and parents for personalized and impactful tutoring in mathematics and science.
- Trained and onboarded new tutors, enabling a 25% improvement in tutor efficiency and student engagement metrics.
- Demonstrated strong analytical skills by creating data-driven progress reports, optimizing teaching strategies based on actionable insights

REFERENCES

Master Maths Cape Town

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Master Maths Westville and Durban North

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