Siyabonga Ngcobo

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Career Objective

Driven and versatile software and data engineering enthusiast with a passion for building innovative digital solutions. I specialize in full-stack development, data processing, and cloud technologies, and enjoy working in agile, collaborative environments. With a strong background in tutoring, problem-solving, and communication, I'm looking to apply my technical skills to impactful projects and continue learning and growing in the tech industry.

Education

WeThinkCode_
Cape Town | NQF Level 5 – Systems Development
September 2023 – December 2024

North-West University (NWU)
Potchefstroom| BSc in Computer Science and Mathematics (First Year Completed)
February 2022 – December 2022

National Senior Certificate
Matriculated 2017
Bachelor's pass with a distinction in Physical Sciences and Tourism

Skills

- **Programming & Development:** Python, Java, C++, JavaScript, C#, SQL, HTML/CSS, RStudio, Flask, REST APIs, OOP, Bash scripting
- **Data & Cloud:**
    - Azure OpenAI Service, Power BI, MySQL, PostgreSQL, Web Scraping, Data Cleaning, Pandas, NumPy
- **Dev Tools & Systems:**
    - Git, GitHub, Docker, Linux (Ubuntu), Agile methodologies, VS Code, Visual Studio, GitLab
- **Digital Tools:**
    - Microsoft Office (6+ years), Google Workspace (4+ years), Canva, Notion
- **Soft Skills:**
    - Excellent communication, adaptability, problem-solving, critical thinking, time management, teamwork, attention to detail
- **Languages Spoken:** English, isiZulu, isiXhosa, seSotho, seTswana, isiNdebele

Projects

Code Breaker CLI
A command-line tool developed in C++ for breaking codes or solving puzzles, highlighting expertise in C++ and utility tool creation.

Equation Solver
A Python project focused on mathematical computations and solving equations.
Demonstrates proficiency in Python and problem-solving.

Student Number Validator
A project aimed at validating student numbers, showcasing skills in data validation and software development.

AI-Powered Tutoring Tool
C# & Azure OpenAI | 2024
Developed a smart education assistant that answers learner queries and assists teachers with generating learning content

Data Pipeline & Dashboard
Python, SQL, Power BI | 2023
Created a full pipeline to extract, clean, and visualize education performance data

Tutoring Website with AI Chatbot
JavaScript, Python | 2024
Built an educational support platform for learners to ask questions and receive real-time AI responses

Experience

Freelance Software & Data Engineering
Cape Town | 2023 – Present
Assisted small businesses with data organization, systems setup, and automation
Created personalized dashboards and tools for productivity

Master Maths/Science – Head Tutor (Westville & Durban North)
Durban | Apr 2023 – Sept 2023, Jul 2021 – Feb 2022
Tutored Grade 10–12 Mathematics and Physical Sciences
Trained new tutors and helped structure the science curriculum

Master Maths/Science – Tutor (Cape Town)
Cape Town | Feb 2019 – Jun 2021
Delivered group and individual tutoring
Focused on academic growth, conceptual understanding, and learner support

Awards & Certifications

Second Semester 3rd Place – WeThinkCode_ (All 3 campuses)
Java Fundamentals – Sololearn
Distinction in Physical Science – Promaths
Top 3 Academic Achiever – Igagasi High School

Additional Information

NQF Level   : 5
Driver's License   : Not yet obtained
Residency   : Cape Town (willing to relocate)
Age   : 26
Availability   : Immediately available
Citizenship   : South African

References

Melissa Wang
Owner – Master Maths/Science (Durban North & Westville)
083 435 1185

Hannelie Brinks
Manager – Master Maths (Cape Town)
082 076 4644