

Siyabonga Mzolo

Summary

Highly motivated and results-driven Final Year BSc IT student majoring in Computer Sciences, aspiring to a Full Stack Software Engineering career. Eager to apply strong problem-solving skills, foundational knowledge in various programming languages, and a passion for technology to develop efficient and effective solutions that address business challenges.

Experience

Supplementary Instructor | North-West University, Vanderbijlpark, South Africa

- Introduction to Problem Solving (**ITSP111**): 1st Semester **2022**, 1st Semester **2025**
 - Introduction to Programming (**ITSP121**): 2nd Semester **2025**
 - Elevated student comprehension by leading weekly sessions that demystified core programming topics, including pseudocode, flowcharts, control structures, functions, and basic algorithms
 - Boosted academic performance through the development and implementation of custom practice exercises, concise summaries, and comprehensive study guides, directly supplementing classroom learning.
 - Cultivated critical thinking skills by guiding students in developing logical thinking and structured problem-solving approaches, empowering them to tackle complex challenges independently.
 - Drove student improvement by consistently monitoring progress and providing targeted, constructive feedback, leading to measurable enhancements in academic performance.
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Education

Falesizwe Senior Secondary School, Frankfort. South Africa - Matric Certificate Grade 12

Jan 2018 - Nov 2019

North West University, Vanderbijlpark, South Africa - BSc in IT (Majoring in Computer Sciences)

Feb 2020 - Nov 2025

Expected Graduation: May 2026

Achievements

- Completed Grade 12 with Bachelor's Degree, **2019**
 - Recognized by the Dean for outstanding academic performance in **2021**, leading to the award of a Merit Bursary.
 - Invited to the Golden Key International Honor Society in **2022** for exceptional academic excellence.
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Skills

- Programming Languages: Python, Java, C++, HTML, JavaScript, C#, SQL
 - Software & Tools: MS Office Suite (Word, Excel, PowerPoint), Git, GitHub, Cisco Packet Tracer
 - Databases: SQL, Oracle
 - Data Structures and Algorithms
 - Decision Support Systems
 - Web development: CSS, HTML
 - Artificial Intelligence and Machine learning
 - Operating Systems: Windows, Linux
 - Networking: TCP/IP, LAN/WAN, Network Protocols
 - Soft Skills: Communication, Problem-solving, Teamwork, Adaptability, Critical Thinking, Time Management, Project Management, Creativity
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Projects

- Collaborated on a group project where we designed a Financial System for Independent Artists that would help manage their financials using C# Windows forms applications.
- Collaborated on a group project where we designed and simulated a comprehensive network infrastructure for a company's new building, ensuring optimal connectivity and security protocols using Cisco Packet Tracer.
- Developed a rule-based healthcare chatbot using Python to simulate basic symptom analysis and provide preliminary health advice. Implemented first-order logic to match user-input symptoms with potential conditions, enhancing user interaction through dynamic responses and structured decision-making.
- Designed and Developed a Virtual Portfolio using HTML, CSS and JavaScript Programming languages., showcasing my work, skills, projects and personal details.
- Collaborated in a team to design and implement a robust relational database system using SQL and Oracle Database. Developed complex queries, stored procedures, and triggers with PL/SQL to manage and manipulate data efficiently, ensuring data integrity and security.
- Designed and developed a responsive and user-friendly website called "Mzolo's Services". The site effectively highlights service details and contact information to enhance client accessibility and engagement.

Languages

- English
- Sesotho
- IsiZulu
- IsiXhosa

Contact details

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GitHub: <https://github.com/SiyaMzolo>

Virtual Portfolio: <https://siyamzolo.github.io/virtual-cv/>

References

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Dr William Van Blerk

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Mr Tibo Kiefer

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