

Lwazi Cekiso

Software Developer

Cell: +27 68-122-1850 | Cape Town, Western Cape | lwazicekiso@gmail.com | **LinkedIn:** <https://www.linkedin.com/in/lwazi-cekiso/>
GitHub: <https://github.com/Lwazicekiso> | **Portfolio:** <https://lwazidevportfolio.onrender.com>

Honours student in Informatics with a strong background in software development, system analysis, and data analysis. Passionate about leveraging technology to solve real-world challenges, I thrive in dynamic, problem-solving environments and am eager to apply my analytical and technical skills in a hands-on internship.

EDUCATION & CERTIFICATIONS

Bachelor of Informatics Honours, University of Stellenbosch (2025)
BA Humanities (Informatics Major), University of Stellenbosch (2022 -2024)
Foundational C# Certification with Microsoft (2025)

Skills

- **Programming Languages:** C#, Python, JavaScript, SQL, R
- **Software Development:** Full-Stack Development (React, ASP.NET), API Integration, Authentication Systems, PocketBase, Firebase
- **UI/UX & Planning:** Wireframing (Figma, Visual Paradigm), UML Diagrams, SDLC, Business Analysis
- **Data Analysis & Visualization:** Python (Pandas, NumPy), R (tidyverse, ggplot2), Data Storytelling
- **Tools & Platforms:** Git/GitHub, Visual Studio, Microsoft Office, Linux

PROFESSIONAL EXPERIENCE

Sanipipe Engineering Services | Cape Town Nov 2024 – Feb 2025 (Completed)
General Assistant

- Supported risk mitigation efforts by identifying potential operational risks early, helping reduce project delays by 10%.
- Accurately captured and processed over 150+ invoices, maintaining a 90% error-free rate through meticulous financial record-keeping.
- Designed and implemented dynamic Excel tracking tools, improving financial reporting efficiency and reducing monthly reporting time by 20%.
- Collaborated in project planning and cost control initiatives, directly contributing to more informed, data-driven resource allocation decisions across 3+ projects

PROJECTS

Student Administration System

(React, SQL, JavaScript, PocketBase)

 [GitHub Repository](#)

- Designed and developed a full-stack system to manage student applications and records, improving administrative efficiency.
 - Led full **Software Development Life Cycle (SDLC)**: conducted business analysis, authored a Business Requirements Document (BRD), created UML diagrams, and prototyped wireframes.
 - Facilitated team meetings to drive feature brainstorming, ensuring balanced decision-making and collaborative problem-solving.
 - Built a secure backend using **React Admin** and **SQL**, integrating authentication for safe and reliable data handling.
 - Evaluated trade-offs between feature complexity and performance, optimizing the system for scalability.
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Network Reconnaissance Tool

(Python, Linux, Networking)

 [GitHub Repository](#)

- Developed a Python-based automated reconnaissance tool for internal and external network scanning.
 - Integrated WHOIS lookups, DNS record enumeration (A, MX, NS), Nmap scanning, and CVE vulnerability retrieval into a single workflow.
 - Created a clean **Command Line Interface (CLI)** that outputs scan results in both .txt and .json formats.
 - Simulated ethical information gathering scenarios aligned with professional penetration testing practices.
 - Deepened understanding of networking concepts such as DNS structures, port scanning methodologies, and vulnerability research.
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Exploratory Data Analysis & Visualization

(R, ggplot2, tidyverse)

 [GitHub Repository](#)

- Conducted data cleaning, transformation, and exploratory analysis on customer purchasing trends and Olympic Games datasets.
- Created compelling visualizations using **ggplot2** and **tidyverse** to reveal actionable patterns and insights.
- Produced exploratory reports that combined statistical analysis with effective data storytelling to support business decisions.

References

Available upon request.