Sowanga Siyolise Mbane

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PROFILE

BSc Computer Science & Computer Engineering graduand (University of Cape Town, expected Mar 2026) seeking junior software development opportunities. Foundation in software development, networking, databases, and operating systems, with project experience using Python, Java, C++, JavaScript, and SQL. Comfortable working with Windows and Linux basics, writing clear documentation, and debugging issues through structured troubleshooting. Reliable collaborator with strong communication skills and a willingness to learn.

EDUCATION

University of Cape Town (UCT) — Cape Town, South Africa
BSc Computer Science & Computer Engineering — *Expected: Mar 2026*
- Relevant coursework: Software Engineering, Databases, Networks, Operating Systems, Computer Architecture
- Award: UCT Science Faculty Entrance Scholarship (2023)

Tlokweng Senior Secondary School — Eastern Cape, South Africa
National Senior Certificate (NSC) — *Completed: 2022*
- Award: Eastern Cape Provincial Top Achiever (Top 60)

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, HTML, CSS, SQL
Core Concepts: data structures, debugging, validation/testing, error handling, basic logging
Databases: MySQL, PostgreSQL; relational design, joins, filtering, aggregation
Systems & Networking: Windows, Linux basics, TCP/UDP fundamentals, client-server concepts
Tools: Git, Office 365
Embedded Exposure (Coursework): STM32F4, ARM architecture basics, ARM assembly fundamentals

PROJECTS

Mini BitTorrent-like P2P File Sharing System | *Python, TCP/UDP, Sockets*
- Implemented a peer-to-peer file-sharing prototype using UDP for peer discovery and TCP for file transfer.
- Tested common networking edge cases (timeouts, retries, partial messages) and fixed issues found during testing.
- Added basic input validation and error handling to reduce failures during file transfers.

CodePulse (Offline Activity Tracker) | *C++, SQLite, JavaScript*
- Built an offline activity tracker that stores records in SQLite and generates simple summaries.
- Implemented validation and data checks to reduce incorrect entries and improve stored data consistency.
- Wrote setup and usage notes to support repeatable testing and handover.

FarmYield Predictor (Decision Support Tool) | *Python, C++, Data Analysis*
- Prepared datasets and evaluated simple prediction approaches using basic metrics.
- Summarised results clearly to support analysis and discussion.

EXPERIENCE

Examination Assistant — 2024
Eastern Cape Department of Education — *South Africa*
- Assisted with exam administration by verifying records, checking documentation, and resolving discrepancies.
- Maintained accuracy under strict deadlines and followed structured processes for correct submissions.
- Worked collaboratively and handled sensitive information responsibly and professionally.

CORE COMPETENCIES

Problem Solving ● Troubleshooting ● Attention to Detail ● Team Collaboration ● Communication ● Fast Learning ● Documentation ● Reliability