

RESUME OF MATSHAYA PHUMUDZO



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PROFESSIONAL SUMMARY

Motivated BSc Mathematics and Computer Science student with a strong foundation in programming, data structures, mathematics, and machine learning. Experienced building complete software solutions including smart city systems, transport route optimization tools, queue management systems, and Qt-based GUI applications.

EDUCATION

University of South Africa (UNISA)

BSc in Mathematics & Computer Science (2023 – Present)

Credits Earned: 168 | Majors: Computer Science, Mathematics

SKILLS BREAKDOWN

Programming Languages: C++ (Advanced), HTML, CSS, JavaScript, Python

Software Engineering: OOP, Data Structures, Algorithms, Debugging, File I/O

Web Development: Responsive UI, DOM manipulation, Flexbox/Grid

Tools: VS Code, Qt Creator, CodeBlocks, Git, GitHub

Mathematics & CS: Linear Algebra, Calculus, Discrete Math, Logic, Numerical Methods

PROJECTS

Smart City Route Management System (C++)

- Shortest path routing, real-time updates, graph algorithms

Transport Connectivity in Southern Africa (C++)

- Models country-to-country links, route optimization, cost analysis

Public Transport Queue System (C++)

- Queue simulation, boarding logic, real-time updates

Qt-Based Library Management System (C++)

- GUI app with book search, borrow/return, data storage

Portfolio Website [phumudzo.dev]

- HTML/CSS/JS, fully responsive, client-ready

ACHIEVEMENTS

- Built 4 advanced C++ systems

- Passed EUP1501 with Distinction (85%)

- **Distinction** in COS2611 (Data Structures),

- **Distinction** in COS2614 (Programming: Contemporary Concepts)

- Developed client business websites

- Strong self-learning record