

Kgaugelo Matshela

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PROFESSIONAL PROFILE

Software Developer with a solid foundation in Python, C++, Java, and algorithm design, with hands-on experience with web technologies and databases. Proficient in building data-driven applications, solving complex computing problems, and writing clean, efficient code. Demonstrates strong teamwork, problem-solving, and communication skills with a passion for innovation and continuous learning. Completed Bachelor of Science in Computing in 2025. Adept in debugging, scripting, and software system operations. Detail-oriented, collaborative, and eager to contribute in fast-paced, innovative environments.

SKILLS

- **Programming Languages:**
Python (OOP, file I/O, JSON, exceptions)
C/C++ (dynamic memory, data structures, algorithm implementation)
Java (basic GUI apps, file handling, collections)
- **Web & Databases:**
HTML, CSS, JavaScript (DOM manipulation, responsive layouts)
MySQL, SQLite (joins, queries, schema design)
- **Tools & Systems:**
Bash Scripting, Unix/Linux CLI
Git/GitHub, Visual Studio Code, GCC
- **Soft Skills:**
Analytical thinking, teamwork, communication, leadership
- **Languages:**
Sependi (Native), English (Fluent)

EDUCATION

**Bachelor of Science in Computing | University of South Africa
(UNISA)**

2021 - 2025

- Completed key modules in Data Structures, Algorithms, Operating Systems, Computer Networks and Software Engineering
- Gained practical experience developing and optimizing sorting algorithms (bubble, merge sort) and binary search trees in C++
- Built an interactive 3D graphics application using Three.js, JavaScript, and HTML/CSS, with focus on rendering and user responsiveness
- Designed and automated system tasks using Bash scripting and regular expressions on Unix-based systems
- Collaborated on full-cycle software development projects, applying object-oriented analysis as well as project management techniques.

- Applied relational database principles to model, query and implement real-world scenarios

High School Diploma | Mamagogo High School

**Graduated
2018**

- Subjects: Sepedi, English, Mathematics, Geography, Life Sciences, Agricultural Sciences, Life Orientation

PROJECTS

Sales System Desktop Application (C++/Qt)

HYPERLINK
"https://github.com/kgauz/Myprojects/blob/main/SellingSystemProject.zip"Source Code

Built a cross-platform desktop application for a retail sales system using Qt and C++. Enabled users to purchase items, log transactions, and store customer data. Implemented XML formatting and used UDP protocol to transmit purchase data to a receiving client

3D Portfolio Web App (Three.js/JavaScript)

HYPERLINK
"https://github.com/kgauz/Myprojects/blob/main/COS3712ASSIN2.zip"Source Code

Created an interactive 3D graphics project using Three.js, JavaScript, HTML and CSS. Focused on smooth rendering, user-friendly animation, and responsive design across devices

Login & Registration System (PHP/MySQL)

HYPERLINK
"https://github.com/kgauz/Myprojects/blob/main/backendLogin.zip"Source Code

Developed a basic web authentication system with HTML, CSS, JavaScript, and PHP. Stored and validated user credentials using a MySQL database with backend login verification

Hair Salon E-commerce Website

<http://kronwned.iceiy.com/>

Designing an e-commerce platform for a hair salon using HTML and CSS. Future plans include PHP-based dynamic functionality and MySQL integration for inventory and booking management.