

# Kgaugelo Matshela

Pretoria, Gauteng. Willing to relocate

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## PROFESSIONAL PROFILE

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**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

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- **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:**  
Sepedi (Native), English (Fluent)

## EDUCATION

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**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**

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### **Sales System Desktop Application (C++/Qt)**

**HYPERLINK**  
["https://github.com/kgauz/Myprojects/blob/main/SellingSystemProject.zip"](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"](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"](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/](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.