





NTSAKO NGOBENI


STUDENT

CONTACT

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 740 Van Dalen Rd S, Telelestai Estate Roodeport

SKILLS

- Software development
- Data structures
- Mathematical modeling
- Coding C++ and Java
- Proficient in Microsoft Office
- Logical thinking
- Strategic thinking
- Creative problem-solving
- Time management

LANGUAGE

- English
- Xitsonga
- Zulu
- Afrikaans
- Pedi

PROFESSIONAL PROFILE

As a diligent Computer Science and Mathematics undergraduate in their final year, I bring a solid foundation in Java and C++, coupled with a passion for problem-solving and algorithmic thinking. My proactive approach to learning and hands-on experience in coding projects demonstrate my ability to adapt to various challenges in the tech industry.

WORK EXPERIENCE

Mathematics tutor and c++ tutor

January 2021 - June 2023

During my pursuit of a mathematics degree commencing in 2021, I actively engaged in mentoring approximately 300 high school students in mathematics until transitioning to the role of a C++ tutor in June till November 2023. This role has afforded me invaluable opportunities to refine my interpersonal skills through collaboration with diverse individuals

Projects

Blockchain-Driven Criminal Records Integrity System

Developed a blockchain-based solution to safeguard and ensure the integrity and accessibility of criminal records. The system prevents tampering or deletion of records, providing secure, transparent access for law enforcement and institutions.

YouTube Link : <https://youtu.be/qnjO-lo4y9Y>

Source code link :

<https://drive.google.com/file/d/10E0lzNVOsZ5FGwS8JGWELD1FC8bBjLnf/view?usp=sharing>

Finger Cursor control

Developed a Java application using OpenCV to control the computer cursor via camera detection of a red object. Motivated by the Apple Vision pro where you can move things using your finger in space. Demonstrated skills in computer vision, real-time processing, and user interface enhancement.

YouTube Link : <https://youtu.be/EqyVQ9r7scs>

Source code link:

https://drive.google.com/file/d/1_vlImkWWuDDzcWoUu6SV1ArGID7YIuvf/view?usp=sharing

EDUCATION

Bachelor of Science

BSc in Mathematics and Computer Science

University of Johannesburg | 2021 - Present / doing my final year.

- Programming languages such as Java C++ , visual basic and assembly.
- Statistics and applied math
- Computer networking and numerical methods
- Linear algebra , discrete algebra ,calculus and real analysis