

Alexander Westley

DETAILS

Stellenbosch, South Africa

(+27) 72 240 4839

alexanderjwestley@gmail.com

ajwestley.me

<https://github.com/AJWestley>

SKILLS

- Python Programming
- Java Programming
- C/C++ Programming
- HTML/CSS/JavaScript
- SQL
- Git
- Advanced Maths
- Advanced Physics

EDUCATION

National Senior Certificate – Maritzburg College (2016 - 2020)

Bachelor's Pass with 6 A's and 2 B's.

BSc Computer Science – Stellenbosch University (2021 - Present)

Currently pursuing a double major in Computer Science and Physics.

PROJECTS

Cellular Automaton for a Two-Lane Highway System

Using both Python and C, I simulated a two-lane highway to investigate how the effect of a road bottleneck can be mitigated.

The highway system was simulated with a two-lane variation of the Nagel-Schreckenberg model.

Ideal and Non-Ideal Gas Simulation

Using Python, I wrote a simulation to visualize gases with interacting and non-interacting particles.

The simulation uses a spatial hash-map for collision detection and models each particle in the 2D space as a circle.

Portfolio Website

Using HTML, CSS and JavaScript I designed my own portfolio website.

The website is accessible from the link under "Details".

EXTRA-CURRICULARS

Treasurer – Stellenbosch University Choir (2022)

As treasurer, I facilitated fund-raising efforts for the choir as well as managed the budget for the choir's internal social and outreach events.

Chorister – Stellenbosch University Choir (2021-Present)

As a member of my university choir, I balance my studies with 6-12 hours of practice per week as well as regular concerts.

CERTIFICATIONS

Data Science: Analytics – Codecademy (2023)