Alexander Westley

DETAILS

Stellenbosch, South Africa

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ajwestley.me

https://github.com/AJWestley

SKILLS

- Python Programming
- Java Programming
- 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

Parallel Othello AI – University Project, Parallel Computing

Using C and MPI, I wrote an AI which plays the Othello board game.

The AI uses a minimax algorithm with alpha-beta pruning, and a master-worker parallel model with top-level workload balancing.

Ideal and Non-Ideal Gas Simulation – Personal Project

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 – Personal Project

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)