Willie Loftie-Eaton

 Stellenbosch University   ✉ willieloea@gmail.com   📞 071 494 3857   🔗 willieloea.github.io

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About

Computer Science graduate from Stellenbosch Univeristy. In my undergraduate studies, I gained experience with a variety of programming languages (Java, C, Python, HTML & CSS, React.js and some x86 assembly). In my honours year, I'm focusing more on data science, studying machine learning and computational intelligence (particle swarm optimization and evolutionary computation). I'm eager to work hard and solve problems.

Education

BSc   **Stellenbosch University**, Computer Science (General Stream)   Stellenbosch, WC, RSA
Average of 60%   Feb 2021 – Nov 2024
- Had modules covering computer science (DSA, ML, Web development, Concurrency, AI), mathematics (calculus, linear algebra, abstract mathematics), applied mathematics (graph theory, cryptography), operations research (queuing systems), and statistics.

Matric **Curro Windhoek Gymnasium**, High School   Windhoek, Namibia
Math 1; Computer Studies 2; Physics 2; Business 2; Afrikaans (1) 3; English (2) 3   Jan 2016 – Nov 2020

Experience

Kingly Clark, Summer Intern   Stellenbosch, WC, RSA
Wrote e2e tests for a React Native application using Jest.   June 2024 – July 2024

Projects

cilpy   Feb 2025 – present
A computational intelligence library written in Python for studying nature inspired algorithms.
- Will be opensourced by the end of the year.

Skills

Programming: Proficient in Python, C, and Java

Mathematics: Good understanding of calculus and linear algebra, and an elementary understanding of statistics

Languages: English (fluent), Afrikaans (native)

Publications

Particle Swarm Optimization for Large Scale Optimization Problems   Apr 2025
Willie Loftie-Eaton
github.com/willieloea/ci_research/blob/main/pso_for_lsop.pdf 🔗

Extracurricular Activities

- Started and lead the SU Developer Society 🔗

- Organised a cross country running competition in my second year at university.