

Willie Loftie-Eaton

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About

I am a BSc Computer Science graduate from Stellenbosch University. In my undergraduate studies I gained experience with a variety of programming languages, and learned how to work in a team. In 2025 I started pursuing an honours in computer science, focusing more on machine learning and computational intelligence (particle swarm optimization and evolutionary computation). I want to have a productive career and I'm eager to work hard and learn a lot in 2026, either as a software engineer or machine learning engineer. If you have employment or internship opportunities in 2026, please contact me.



Education

BSc Hons Computer Science, Stellenbosch University 2025-2026

Took modules covering **machine learning** (Dimensionality Reduction, Classification, Hidden Markov Models), **computational intelligence** (Particle Swarm Optimization, Genetic Algorithms), **artificial intelligence** (Prolog, Problog, Reinforcement Learning), **automata theory** (Church-Turing Thesis), and **advanced algorithms**. I have to complete one more 16 credit module in 2026.

BSc Computer Science, Stellenbosch University 2021-2024

60% average overall, 65% average for computer science modules.

Took modules covering **computer science** (DSA, Computer Architecture, Web Development, Databases, Networks, Concurrency, Software Engineering), **mathematics** (Calculus, Linear Algebra, Abstract Mathematics), **applied mathematics** (Graph Theory, Cryptography), **operations research** (Queuing Systems), and **statistics**.

Matric, Curro Windhoek Gymnasium High School 2016-2020

Math 1; Computer Studies 2; Physics 2; Business 2; Afrikaans (1) 3; English (2) 3

Experience

Kingly Clark, Summer Internship June 2024

Wrote e2e tests for a React Native application using Jest. I also worked with Docker during this internship.

Projects

[cilpy](#)

A library for computational intelligence researchers to study diverse and complex problems, including multi-objective and dynamically constrained optimization problems.

[flashcards_wle](#)

A flashcards app that allows users to create markdown flashcards. The goals of this app are to 1) help me learn various topics, and 2) serve as a proving ground of my abilities for businesses interested in hiring me as a software engineer.

Research

Willie Loftie-Eaton. *Particle Swarm Optimization for Large Scale Optimization Problems*.

Liam Abbott and Willie Loftie-Eaton. *Monads in C*.

In the future, I will continue to upload reports of personal research here: github.com/willieloea/research.

Skills

Programming: Proficient in Python, C, and Java. Familiar with x86-Assembly, SQL, HTML, CSS, and React.js.

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

Languages: English (native), Afrikaans (native).

Tools: I am familiar with Docker and Git basics, and enjoy using \LaTeX , Linux, and Vim.

Extracurricular Activities

Co-founded the [SU Developer Society](#) in 2025, and organised a cross country running competition in 2022.