

# Willie Loftie-Eaton

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## About

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Computer Science graduate from Stellenbosch University. In my undergraduate studies, I gained experience with a variety of programming languages (Java, C, Python, SQL, HTML & CSS, React.js and some x86 assembly). This year, I'm doing my honours in computer science, focusing more on data science, studying 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.

## Education

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**BSc** **Stellenbosch University**, Computer Science (General Stream)

Average of 60%

Stellenbosch, WC, RSA  
Feb 2021 – Nov 2024

- Had modules covering computer science (DSA, Computer architecture, Web development, Introductory databases, Networks, Concurrency, Software engineering, AI, ML, Automata theory), mathematics (calculus, linear algebra, abstract mathematics), applied mathematics (graph theory, cryptography), operations research (queuing systems), and statistics.

**Matric Curro Windhoek Gymnasium**, High School

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

Windhoek, Namibia  
Jan 2016 – Nov 2020

## Experience

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**Kingly Clark**, Summer Intern

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

Stellenbosch, WC, RSA  
June 2024 – July 2024

## Projects

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**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

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**Programming:** Proficient in Python, C, and Java. Familiar with Docker, Git, SQL, HTML, CSS, and React.js

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

**Languages:** English (fluent), Afrikaans (native)

## Research

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**Particle Swarm Optimization for Large Scale Optimization Problems**

Apr 2025

Authors: *Willie Loftie-Eaton*

[github.com/willieloea/ci\\_research/blob/main/pso\\_for\\_lsop.pdf](https://github.com/willieloea/ci_research/blob/main/pso_for_lsop.pdf) ↗

**Programming Patterns: Continuations and monads**

May 2025

Authors: *Liam Abbott, Willie Loftie-Eaton*

[github.com/willieloea/research/blob/main/monads\\_in\\_c.pdf](https://github.com/willieloea/research/blob/main/monads_in_c.pdf) ↗

## Extracurricular Activities

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- Started and lead the [SU Developer Society](#) ↗ and organised a cross country running competition in 2022.