

# Willie Loftie-Eaton

📍 Stellenbosch University    ✉ willieloea@gmail.com    ☎ 071 494 3857    🔗 willieloea.github.io  
 🌐 willieloea    🔄 willieloea    ✂ willieloea

## About

Computer Science graduate from Stellenbosch University. In my undergraduate studies, I gained experience with a variety of programming languages (Java, C, Python, 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

<b>BSc Stellenbosch University</b> , Computer Science (General Stream) Average of 60% <ul style="list-style-type: none"> <li>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.</li> </ul>	Stellenbosch, WC, RSA Feb 2021 – Nov 2024
<b>Matric Curro Windhoek Gymnasium</b> , High School Math 1; Computer Studies 2; Physics 2; Business 2; Afrikaans (1) 3; English (2) 3	Windhoek, Namibia Jan 2016 – Nov 2020

## Experience

<b>Kingly Clark</b> , 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

<b>cilpy</b> A computational intelligence library written in Python for studying nature inspired algorithms. <ul style="list-style-type: none"> <li>Will be opensourced by the end of the year.</li> </ul>	Feb 2025 – present
---	--------------------

## Skills

**Programming:** Proficient in Python, C, and Java. Familiar with 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

<b>Particle Swarm Optimization for Large Scale Optimization Problems</b> Authors: <i>Willie Loftie-Eaton</i> <a href="https://github.com/willieloea/ci_research/blob/main/pso_for_lsop.pdf">github.com/willieloea/ci_research/blob/main/pso_for_lsop.pdf</a>	Apr 2025
<b>Programming Patterns: Continuations and monads</b> Authors: <i>Liam Abbott, Willie Loftie-Eaton</i> <a href="https://github.com/willieloea/research/blob/main/monads_in_c.pdf">github.com/willieloea/research/blob/main/monads_in_c.pdf</a>	May 2025

## Extracurricular Activities

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