

Willie Loftie-Eaton

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About

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

BSc Stellenbosch University , Computer Science (General Stream) Average of 60% <ul style="list-style-type: none">• 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.	Stellenbosch, WC, RSA Feb 2021 – Nov 2024
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

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
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Projects

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

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

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

Extracurricular Activities

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