

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)	Stellenbosch, WC, RSA
	60% average overall, 65% average for computer science modules.	Feb 2021 – Nov 2024
	<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.	
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. I also worked with Docker during this internship.	June 2024 – July 2024

Projects

cilpy	Feb 2025 – present
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.	

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

Extracurricular Activities

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