

Coen Potgieter

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I am an ambitious Data Engineering student in my final year at Stellenbosch University who has an endless curiosity for anything technical and wish to understand its complexities down to its core. I love learning, developing new skills and building projects, particularly in machine learning, computer science and chess. I thrive on understanding, leveraging my strong mathematical foundation and proficiency in various programming languages. My ability to learn quickly, communicate ideas effectively, and navigate both technical and social challenges makes me a versatile team player. I am eager to apply my skills, but also to learn in the context of real-world problems and dynamic environments.

EXPERIENCE

• Research Assistant

Under the guidance of Prof. Marion Sinclair, I contributed to a comprehensive research project examining road crime incidents across South Africa. Leveraging web scraping techniques, I systematically collected data from a diverse range of news outlets and social media platforms. My partner and I then processed and analysed the data to uncover trends and patterns in road crime. Ultimately, we utilized QGIS to create detailed, spatially-oriented visualizations to present our findings.

• Entelect Simulation

During my Computer Science 344 module, I participated in an Entelect-sponsored software engineering simulation, working in group ENT2 under Craig Stroberg. Our team developed a web application for logging crimes and a platform to help security companies optimize patrol routes. I was primarily involved in the backend, working with MySQL and Express.js, but also made reasonable contributions to the frontend, using React and Tailwind CSS. The project gave me a realistic view of software development, dealing with changing requirements and applying Agile methodologies as well as Gitflow. Not only did I learn new technologies but also strengthened my soft skills, teaching me how to navigate differing temperaments within the group, resolve conflicting decisions, and work effectively in a team-oriented environment.

EDUCATION

Bishops Diocesan College
Cape Town, ZA
2017 - 2021

Matric Results

Stellenbosch University
Stellenbosch, ZA
2022 - now
BEng (Electr and Electron) Data Engineering

1st Year Results
2nd Year Results
3rd Year Results

LANGUAGES & FRAMEWORKS

Python



C++



React



PyTorch



R



INTERESTS

- Programming
- Chess
- Exercise/Health
- New Technologies
- Music
- Reading
- Machine Learning/AI