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RogerDMK

ROGER DE MELLO KOCH

EDUCATION

Marist Brothers Linmeyer: - 2018
Matric was completed at Marist Brothers Linmeyer in 2018.

Subjects taken:
- English Home Language
- Afrikaans First Additional Language
- Mathematics
- Physical Sciences
- Life Sciences
- Geography
- Life Orientation
- Advanced Programme Mathematics

University of the Witwatersrand: 2019 - 2022
I studied a BSc in Electrical Engineering (Information option). I completed the degree in the four-year minimum time period despite the fact that the degree has an average completion time of over six years.

Capstone project - I used a dataset derived from the MODIS Satellite to generate a wildfire prediction map using machine learning techniques. Each map shows the probability of a fire occurring the next day for the Southern African region.

WORK EXPERIENCE AND PUBLICATIONS

ABSA Group Limited: Intern
2018
I completed vacation work at ABSA Group Limited for 6 weeks in the Cyber Security division.

Designed and built a prototype website for communication between penetration testers and the Security Automation Team. The website was built using the Django framework and a MySQL database.

HOBBIES AND SKILLS

Music
I studied piano for 12 years up until a UNISA grade 5 level.
Sports
Basketball – won both high school division (2015) and our Johannesburg Basketball League division (2016) on a club level. Part of the Gauteng Provincial Team for the 2016 SACSA Easter Tournament.

Squash – won high school division in 2014.

Programming

I know the programming languages C++ , Python, JavaScript as well as NodeJS, bash, assembly and MatLab.

In Python I have made use of sci-kit learn for machine learning and Django for web development.

Unix

I have experience working with several Unix based systems, both GUI and headless versions. For example, I have used Ubuntu and Centos.

CHPC Student Cluster Competition - 2021

I participated in this competition with a team of four total university students. We achieved third in the competition out of 10 teams. This competition focused on setting up a functional cluster and optimizing benchmarks.

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