

Joseph Sidley

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PROFILE

Throughout my time as a student at the University of Cape Town, I have become increasingly interested in the use of computer science and statistics in the analysis of large datasets, particularly using statistical techniques and machine learning to uncover insights that may be invisible using traditional analytics, with a particular focus on the use of neural networks and evolutionary computation in understanding these datasets and working on multidimensional problems. I have also worked on web development and software development projects and have enjoyed these immensely. These skills that I have developed could be employed in potentially any area of industry.

EDUCATION

BSc in Applied Statistics and Computer Science

University of Cape Town

2019-2021

Cumulative GPA: 74%

BSc Hons in Computer Science

University of Cape Town

Expected to graduate end 2022

Current GPA: 78%

High School

St. John's College

2014-2018

6 Distinctions: 87% average

95% in Mathematics

88% in Physical Sciences

Prefect

INTERESTS AND HOBBIES

Outside of academic and intellectual pursuits, I am very attached to the outdoors. I often hike in and around Cape Town and the Magaliesberg. I also enjoy sports such as 5-a-side football and squash. My parents are both authors and have instilled a love of literature in me. To express my creative side, I listen to and play music. Furthermore, one of my greatest passions is cooking and I take great joy in preparing food for my roommates and family.

EXPERIENCE AND TRAINING

Private High School Tutor: Get Smart Tutoring Agency

2020-Present

Tutoring Mathematics, Information Technology and Physical Sciences to Grade 7-12s

Deep Learning Algorithms

I completed the Fast.AI deep learning course in 2020 (Personal Project)

Honours Project

My final year thesis was concerned with the development and implementation of a database dashboard web tool named Glycan3DB for carbohydrate visualisation and research. This was a full stack development project, incorporating database design, front end and back end development

Research Assistant - University of Cape Town

November - December 2022

I was invited to spend a month as a paid research assistant for my Honours supervisor. This job involves extending the scope and bettering the usability of the Glycan3DB dashboard

OTHER SKILLS AND ACHIEVEMENTS

MUSIC

Grade 5 ABRSM Saxophonist

Grade 4 ABRSM Pianist

COMMUNITY SERVICE

Bronze President's Award

St. John's College Eagle Award

ACADEMIC

Invitation to Golden Key Honour Society

University of Cape Town Dean's List (2019)

SKILLS AND PROFICIENCIES

- Enjoy and am experienced in many forms of programming, specifically: Java, JavaScript, Python, SQL database management, front end development and R.
- Problem-solving skills and willingness to learn
- Interpersonal communication skills
- Wiring GPIOs and integrating sensors with Python coding, using Raspberry Pi (personal project).
- Interest in Cryptography and Distributed Ledger technologies.
- Interest and experience in Artificial Intelligence and evolutionary computation.