

Jo Busser

London, United Kingdom

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Skills

- Java | Python | JavaScript | C | C# | React | Node | Flask | SQL | Unity | Unit testing | Frontend | Backend
- Data structures | Algorithms | OOP | Git | Machine Learning | Deep Learning | Optimisation | Game development
- Public speaking | Leadership | Adaptability | Critical thinking | Mentoring | Communication | Social impact
- Professional English | Professional Afrikaans | Conversational Northern Sotho

Experience

Digital analyst
London, UK

BDO UK LLP

01/2024
Current

- Assessed the risk of multiple, diverse IT environments through a variety of applications and tools.
- Team contributions in cybersecurity auditing, security advisory, and SOC2 certification fieldwork and reporting.
- Over 50 one-on-one client meetings to provide practical, actionable advice on how to improve security posture.

Intern
Stellenbosch, RSA

Sozo Labs

12/2022
01/2023

- Startup that specialises in gamification, augmented reality, and **virtual reality** for business to business clients.
- Created a free-to-play online video game using **C#** and **Unity**.
- Assisted in development of virtual education environments, the framework is now used by truck mechanics and somatology client-carers to reduce training cost by over 50% while increasing safety.
- Shadowed project, business strategy, and marketing meetings and created a new backend for the public website.

Resident leader
Stellenbosch, RSA

Majuba Men's Residence

09/2021
08/2023

- Designed the values of student organisations as residence vice-chair to promote inclusivity and inter-residence collaboration; campus-wide safety committee which led to deployment of additional security and night lights.
- Overhauled peer **mentorship** program as head mentor reducing the fail rate of inhouse students by 23%.
- Co-led **leadership** committee meetings; hosted award ceremonies; arranged orientation programs

Education

Student
Stellenbosch, RSA

Stellenbosch University

01/2020
12/2023

- Honours in Computer Science with a Cum Lauda.
- Subjects of interest Included supervised and unsupervised **machine learning**, swarm-based optimisation, advanced **algorithms**, data science, statistics, computer vision, statistics, operations research, and computing in society.
- Academic **tutor** for university; first-year intro to CS, second-year intro to OOP, and third-year machine learning.

Projects

- Clustering academic research papers with **large language models** to identify trends in research. Compared the proposed transformer-based topic modelling approach against a conventional citation-based, graph theory approach and displayed results in an interactive dashboard with complex visualisations that adjust on input.
- Real-time global news analyzer with a **Flask** API and a 3D **React** frontend to compare region specific focus.
- Open source video game posted on itch.io, developed in Unity and C# during a two-week game jam.
- Algorithmic trading backtesting **framework** in **Python** with a simulated broker, trade analysis, strategy optimiser.

Other

- Projects of interest are all found on GitHub and linked on the linked portfolio website.
- South African who moved to London at the start of 2024.
- Star Wars fanatic; strong history of competitive Minecraft; books include Ender's Game, Children of Time, and 1988.