Jack Montgomery

Cape Town, South Africa

✉ mail@jackbmontgomery.com   ☐ 063 141 5799

I am currently working as a data scientist at a machine learning and optimization consulting company. My academic interests include machine learning, chaos theory, and computational neuroscience. I enjoy applying my background in mathematics, statistics, and computer science to solve real-world problems using simple and efficient methods.

EDUCATION

University of Oxford   **Oxford, England**
MSc in Mathematical Sciences   *October 2025*

University of Cape Town   **Cape Town, South Africa**
BSc Honours in Mathematics   *November 2024*
○ Awarded in the first class

University of Cape Town   **Cape Town, South Africa**
BSc Specialising in Mathematics, Mathematical Statistics and Computer Science   *December 2022*
○ Awarded with distinction in Computer Science and Mathematics and degree with distinction

St John's College   **Johannesburg, South Africa**
National Senior Certificate   *December 2019*
○ Top 1% nationally for Mathematics and Drama

EXPERIENCE

Data Scientist   **Johannesburg, South Africa**
Isazi Consulting   *January 2025*
○ Machine Learning
○ Statistical Modelling
○ Optical character recognition models

Software Engineer   **Cape Town, South Africa**
Yellow Africa   *November 2022 - November 2024*
○ DevOps and Cloud Computing
○ Infrastructure as code
○ Commercial Problem Solving

AWARDS AND ACHIEVEMENTS

○ Dean's Merit List 2022
○ Member of the Golden Key Society
○ St John's College Head of School 2019

KEY SKILLS

○ **Cloud Computing** - Experience with AWS, particularly in serverless architectures.
○ **DevOps** - Experience in creating and deploying Terraform modules.
○ **High-Performance Computing** - Proficiency with JAX for accelerated computations.
○ **Relational Databases** - Experience with MySQL and PostgreSQL.
○ **Software Development** - Strong programming background in Python, Rust, and R.
○ **Machine Learning** - Experience with statistical modeling, deep learning, and reinforcement learning.
○ **Bayesian Models** - Experience with Active Inference and Predictive Coding.
○ **Public Speaking** - Comfortable presenting to both technical and non-technical audiences.