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 Cape Town   **Cape Town, South Africa**
BSc Honours in Mathematics   *December 2024*

- Functional Analysis
- Chaos Theory
- Reinforcement Learning
- Computational Neuroscience

University of Cape Town   **Cape Town, South Africa**
BSc Specialising in Mathematics, Mathematical Statistics and Computer Science   *December 2022*

St John's College   **Johannesburg, South Africa**
National Senior Certificate   *December 2019*

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

- Bachelor of Science Honours awarded with distinction
- Dean's Merit List 2022
- Bachelor of Science awarded with distinction in Computer Science and Mathematics and degree with distinction
- Member of the Golden Key Society
- Top 1% for Mathematics and Drama in the IEB(Matric)
- St John's College Head of School

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, Java, 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.