

Jack Montgomery

Cape Town, South Africa

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I am currently pursuing a Master's degree in Applied Mathematics at the University of Oxford, with a focus on numerical methods and deep learning. I have experience in both software engineering and data science, having built scalable payment systems as well as accurate predictive models. 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

MSc in Mathematical Sciences

Oxford, England

October 2025 - present

University of Cape Town

BSc Honours in Mathematics

Cape Town, South Africa

February - November 2024

- Awarded in the first class

University of Cape Town

BSc in Mathematics, Mathematical Statistics and Computer Science

Cape Town, South Africa

February 2020 - November 2022

- Awarded with distinction in Computer Science and Mathematics and degree with distinction

St John's College

National Senior Certificate

Johannesburg, South Africa

January 2015 - December 2019

- Top 1% nationally for Mathematics and Drama

EXPERIENCE

Data Scientist

Isazi Consulting

Johannesburg, South Africa

January 2025 - September 2025

- Machine Learning
- Statistical Modelling
- Optical character recognition models

Software Engineer

Yellow Africa

Cape Town, South 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.