

# Jack Montgomery

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As a software engineer at Yellow, a tech startup focused on financing solar home systems and smart-phones in Eastern Africa, I am immersed in leveraging technology for impactful solutions. Concurrently, I am pursuing a honours degree in pure mathematics. I believe my experience with solving commercial problems as well abstract topics allows me to approach all challenges with a broad and unique perspective.

## EDUCATION

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### University of Cape Town

*BSc Honours in Mathematics*

**Cape Town, South Africa**

*December 2024*

- Functional Analysis
- Chaos Theory
- Machine Learning

### University of Cape Town

*BSc Specialising in Mathematics, Mathematical Statistics and Computer Science*

**Cape Town, South Africa**

*December 2022*

### St John's College

*National Senior Certificate*

**Johannesburg, South Africa**

*December 2019*

## EXPERIENCE

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### Isazi Consulting

*Employment*

**Johannesburg, South Africa**

*January 2024*

- Machine Learning
- Statistical Modelling
- Cloud Engineering

### Software Engineer at Yellow Africa

*Employment*

**Cape Town, South Africa**

*November 2022 - November 2024*

- DevOps and Cloud Computing
- Terraform and other IaC tools
- Credit Modeling
- Commercial Problem Solving

### Tutor

*University of Cape Town*

**Cape Town, South Africa**

*January 2022 - June 2024*

- Tutoring for the UCT department of Statistical Sciences. The course is an introduction to Probability Theory and Sample Distributions for second year students. (STA2004F)
- Tutoring for the UCT department of Mathematics.

## AWARDS AND ACHIEVEMENTS

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- Dean's Merit List 2022
- Bachelor of Science awarded with distinction in Computer Science and Mathematics and degree with distinction
- Top 1% for Mathematics and Drama in the IEB(Matric) - November 2019
- St John's College Head of School - 2019
- Member of the Golden Key Society

## KEY SKILLS

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- **Cloud Computing** - Experience with AWS particularly in serverless architectures
- **DevOps** - Experience in creating and deploying Terraform modules
- **Computer Programming** - enjoy coding and comfortable using Python, Java and R
- **Relational Databases** - experience with SQL
- **Statistics and Mathematics** - skills developed through my choice in degree as well as a general proficiency with numbers
- **General Computer Use** - able to produce spreadsheets, reports and similar documents in Microsoft Office or  $\text{\LaTeX}$
- **Leadership** - experience earned through my position as Head of School enhanced my leadership ability
- **Teamwork** - demonstrated through my participation in various teams both on the sports field and in a working environment, resulting in developed interpersonal skills
- **Public Speaking** - very comfortable presenting to crowds of people
- **Online Teaching** - the COVID-19 pandemic demanded that I fulfilled my tutoring duties online, allowing for me to be comfortable with meetings on MS Teams or Zoom

## CLUBS AND EXTRA MURALS

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- University of Cape Town Young Guns Team - 2020
- Cape Town 10s Rugby - 2020
- Fives Futbol - 2020-2021