# PATRICK MOEHRKE

**Technical Consultant | Cloud Practitioner**

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## SKILLS

### Tech Stack

`Python` `R` `Julia` `SQL`
`Lua` `D` `Bash` `JavaScript`
`Git` `Docker` `Linux` `LaTeX`
`GitHub Actions` `EC2` `S3`
`Lambda` `Terraform`

### Techniques

`Containerisation`
`Serverless Computing`
`Solution Architecture`
`Technical Documentation`
`Explainable ML` `MLOps`

### Professional Skills

`Technical Writing` `Mentoring`
`Stakeholder Engagement`
`Innovative` `Critical Thinking`
`Collaboration`

## AWARDS & CERTIFICATIONS

AWS Certified Cloud Practitioner | 2023

Technical Member of ASSA | 2022

Golden Key International Honours Society | 2019

## REFERENCES

Available upon request.

## PROFILE

*I am an aspiring DevOps engineer with demonstrated experience in XXX. I am a self-started who values open source and continuous learning, with my current focus being cloud native techniques.*

## EXPERIENCE

### Actuarial Consultant | Actuartech

📅 July 2020 – Present

As part of a team of 6, I develop solutions and training material to help clients address their business needs that draws on DevOps tooling, machine learning, and the cloud. Using different programming languages and environments, I:

- Developed, architected, and deployed a serverless data management and dashboarding solution on AWS to report financial results aligned with a new international reporting standard (IFRS 17) at a reduced cost vs off-the-shelf solutions.
- Identified and documented risks present in the current architecture of a multinational reinsurer's actuarial & financial reporting solution, and proposed a future implementation state to stakeholders.
- Developed, tested, and documented a financial reporting solution for a South African life insurer to ensure compliance with a new international reporting standard (IFRS 17).
- Architected, tested, and developed low-cost, full-stack serverless web app to conference attendees over 3 days, which had over 3 000 API calls with zero failures.
- Conducted annual mortality experience reports in Python for a South African life insurer using statistical and probabilistic modelling techniques to validate current assumptions and advise on anticipated mortality experience for the company.

### Academic Tutor | Stellenbosch University

📅 January 2020 – July 2020

I served as an academic tutor for Actuarial Science 112 (financial mathematics). This included mentoring, explaining complex topics, and reviewing assignments.

## EDUCATION

### BCom Honours Actuarial Science | Stellenbosch University

📅 Jan 2020 – Dec 2020

Completed coursework and a research project ('Evaluating the use of genetics to calculate risk premiums with applications to Huntington's Disease'). Core competencies included risk management, financial engineering, and statistical programming.

### BCom Actuarial Science | Stellenbosch University

📅 Jan 2017 – Dec 2019

Holistic student with demonstrated academic performance and involvement in campus societies. Subject areas included actuarial science, statistics, computer science, mathematics, and economics.

### IEB National Senior Certificate | Beaulieu College

📅 Jan 2012 – Dec 2016

IEB matric certificate with an A average. Awarded top achiever in 3 subjects.

## PROJECTS

### Project 1 | 🐙 | 🌐

📅 Mm YYYY – Mm YYYY

- Item 1
- Item 2

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### Project 2 | 🦊 | 🌐

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- Item 1
- Item 2