

PATRICK MOEHRKE

Technical Consultant | Cloud Practitioner

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I am an aspiring DevOps engineer with demonstrated experience in cloud development, solution architecture, and machine learning. I am a self-starter who values open source and continuous learning, with my current focus being cloud native techniques.

Open to on-premise, hybrid, and remote work.

SKILLS

Tech Stack

Python R Julia SQL
D Lua Bash JavaScript
Git Docker Linux \LaTeX
GitHub Actions Terraform
EC2 S3 API Gateway
Lambda CodePipeline

Technical Skills

Containerisation CICD
IaC Scripting RESTful APIs
Serverless Computing
Solution Architecture
Technical Documentation
Explainable ML MLOps

Professional Skills

Technical Writing Mentoring
Stakeholder Engagement
Innovation 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.

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'). Focal areas 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.