Ryan Olivier

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WORK EXPERIENCE

Actuarial Product Specialist   **February 2023 – Present**
Momentum Corporate, Cape Town, South Africa
- Product development for the local institutional market, covering mainly with-profit funds and LDI strategies.
- Developed robust actuarial models and analytical frameworks for the product suite, enabling informed risk assessments and data-driven decision-making. Presented insights and recommendations to governance forums.
- Acted as Subject Matter Expert on with-profits modelling, including developing and maintaining models for: reserving for embedded options, cross-subsidy modelling, behavioural modelling, portfolio backtesting, and reporting. Includes migrating existing models from Excel/VBA to Python or Julia.
- Acted as peer reviewer and model validator of newly developed and existing models within the team, ensuring accuracy of internal models and assisting with the improvement of identified shortcomings.
- Automated monthly reporting processes using Python; reduced manual effort and improved auditability. Gained practical PostgreSQL and Git skills during implementation.
- Collaborated with wider teams to evaluate business opportunities, produced compliant marketing literature, trained the wider team on product details, and resolved complex client queries.
- Responsible for product management activities including SARB reporting, fund fact-sheet review, back-tested bonus preparation, database maintenance and ad-hoc product investigations.
- Received recognition for consistent high performance and work ethic (Q1 2025).

Actuarial Analyst   **February 2022 – January 2023**
Santam Reinsurance, Cape Town, South Africa
- Led the reinsurance pricing development team as agile Product Owner; managed the project team and backlog.
- Acted as Subject Matter Expert regarding reinsurance pricing and translated existing models into actionable IT requirements.
- Guided developers in understanding and debugging actuarial calculations, and ensured that the resulting outputs were accurate.
- Engaged closely with diverse teams and management, fostering alignment, securing buy-in, and enabling informed decisions that drove meaningful change. Presented on project progress to executive management.
- Improved existing pricing models using VBA, RMS RiskLink, and MS Access.
- Developed an reinsurance portfolio optimisation tool using ReMetrica and Python.
- Provided ad-hoc actuarial support for data analytics, risk management, and reserving.

EDUCATION

Actuarial Society of South Africa (ASSA)   **2021 – Present**
- Designation: Technical Member (Associate status pending CPD requirements).
- Completed exams (11/12): N211, A111, A112, A113, A211, A212, A213, A214, A311, F105, F106 (CERA)
- Exams left (1/12): F205

BComHons Actuarial Science   **2018 – 2021**
Stellenbosch University

SKILLS

- Actuarial: Financial risk management, stochastic modeling, analytics, and product development
- Technical: Python, Julia, SQL/PostgreSQL, Excel, VBA, R, Git.