

Michael Gicheru Muiruri

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EDUCATION

Strathmore University

Bachelor's of Business Science, Actuarial Science

Nairobi, Kenya

June 2019 — December 2022

- Cumulative GPA: 3.67/4.0 | Dean's List, First Class Honours
- Relevant Coursework: Principles of Actuarial Management, Stochastic Methods, Actuarial Practice and Communication, Programming Methods for Actuarial Science

Institute and Faculty of Actuaries (IFOA)

Actuarial Qualifications

Nairobi, Kenya

September 2021 — Present

- Exams Passed: 8 of 13 papers
- Relevant Coursework: CB1 (Business Finance), CB2 (Business Economics), CB3 (Business Management), CM1 (Actuarial Mathematics), CM2 (Financial Engineering and Loss Reserving), CS1 (Actuarial Statistics), CP2 (Modelling Practice), CP3 (Communication Practice)

WORK EXPERIENCE

Actuarial Associate

December 2022 — Present

Britam General Insurance

Nairobi, Kenya

- Calculated actuarial reserves for the General and Health products
- Conducted the implementation and continuous reporting of IFRS 17 across 4 different countries
- Reviewed Actuarial and Financial Condition Reports (FCR) from the appointed actuary
- Created internal R package containing functions used to simplify common actuarial tasks such as database access and API access with the IFRS 17 reporting engine
- Conducted experience reviews for both general and health insurance products
- Created, reviewed and presented management reports for board meetings
- Calculated and analysed solvency drivers on a monthly basis
- Conducted yearly budgeting exercises on both IFRS 4 and IFRS 17 accounting standards
- Automated the following key tasks with free open source software reducing turn around times:
 - Profit testing of products across the General Insurance group
 - Experience reviews for products, including experience reviews on a scheme basis for the health portfolio
 - Creation of loss ratios per agent PDF files for use by the banc-assurance team
 - Creation of the Insurance Regulatory Authority (IRA) actuarial quarterly report
- Conducted analyses of surpluses of technical provision and adjusted reserves appropriately
- Provided support for the pricing of select monthly general insurance policies and new medical schemes

Underwriting Intern

February 2022 — April 2022

Madison General Insurance Company

Nairobi, Kenya

- Prepared insurance quotations for clients.
- Prepared insurance contracts for policyholders.
- Debiting of new business and renewal of existing policies.

EXTRACURRICULAR ACTIVITIES

Blogging

Jan 2025 — Present

- I have a blog (michaelgicheru.com), where I talk about open source software with applications in Actuarial Science

Open Source Contributor

April 2022 --- December 2022

- I am a creator and maintainer of various open source actuarial-focused R packages.

SKILLS

- **Programming Languages:** R, Rust
- **Technologies:** Excel, Git, GitHub, CI/CD