Kennedy Mwavu

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Creative and detail-oriented Software Developer with 4 years of experience in the design, development, and management of innovative software solutions. Specialised in full-stack development with a strong grasp on modern frameworks and cloud technologies. Proven expertise in streamlining user experience and improving backend functionality for diverse industry applications. Passionate team player with a strong commitment to continuous learning and excellence.

Work Experience

Software Developer

Actuarial Services (EA) Ltd - Nairobi

January 2022 to Present

- Revolutionized the efficiency of runoff triangle processing by implementing an advanced actuarial valuation system using R and JavaScript, slashing the processing time dramatically by more than 98%, from 2 hours to just 10 seconds. This breakthrough not only expedited data handling but also significantly boosted overall analytical productivity and accuracy for client projects.
- Addressed the challenge of handling large datasets split across multiple files by creating an R Shiny application to automate excel-to-csv conversion, and seamlessly merge related datasets into a single consolidated file.

Assistant Software Developer

Actuarial Services (EA) Ltd - Nairobi

July 2021 to December 2021

- Enabled effortless and quick performance evaluation of the various classes of the insurance industry by architecting a web application that offers interactive analysis and visualization capabilities.
- Optimized the performance of R Shiny applications through deployment using Docker and ShinyProxy. This enabled the apps to scale to tens of thousands of users without compromising performance.

R & Shiny Developer

Freelance

May 2020 to June 2021

- Built interactive data visualization applications for clients from diverse industries, including finance, healthcare, and e-commerce.

Education

BSC in Actuarial Science

University of Nairobi - Nairobi

September 2018 to September 2022

High School Diploma

Alliance High School - Kiambu

January 2014 to November 2017

Core Skills

- Full Stack Development
- Cloud Computing (Digital Ocean)
- CI/CD
- RESTful API Design & Development
- Problem Solving & Debugging
- Version Control (Git & GitHub)

Open-source Contributions

- 'micromodal' R package

  - Contribution: Author, maintainer
  - Description: An R package for creating simple and elegant modal dialogs in Shiny.
  - Link: kennedymwavu/micromodal

- 'frbs' R package

  - Contribution: Author, maintainer
  - Description: R wrapper for Google's Firebase Authentication REST API.
  - Link: kennedymwavu/frbs

- 'ambiorix' R web framework

  - Contribution:

    * Created an error handler method for the framework: devOpifex/ambiorix/pull/64
    * Created practical, end-to-end examples demonstrating the usage & capabilities of the ambiorix framework for tasks like building APIs, implementing routing, and achieving dynamic page rendering: ambiorix.dev/docs/examples

- 'polished' R package

  - Contribution: Improved UI interaction in the 'polished' package.
  - Description: Enhanced user interface elements by updating label 'for' attributes for better namespace management and adding 'control-label' classes to label elements, ensuring consistent margin alignment with `email_input()` elements. This contributed to a more intuitive and user-friendly experience in the package.
  - Link: Tychobra/polished/pull/218

- 'ChainLadder' R package

  - Contribution: Identified and reported a critical bug in the `glmReserve()` function.
  - Description: Noticed and reported a typo in the function's source code, which was promptly acknowledged and fixed by the package maintainers. This contribution helped enhance the accuracy and reliability of the package.
  - Link: mages/ChainLadder/issues/79

Referees

Available upon request.