

Kennedy Mwavu

As an innovative developer, I have consistently delivered software solutions that are dependable, efficient, and scalable. With extensive experience in agile methodology and test-driven development, I bring a disciplined approach to my work. I thrive in collaborative team environments, recognizing the importance of both offering assistance to others and seeking support when needed.

CONTACT

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Nairobi, Kenya

EXPERIENCE

Software Developer — ACTSERV

July 2021 - PRESENT

- Implemented an actuarial valuation system for general insurance using R and JavaScript. Employing the powerful data.table library in R, the system achieved a significant reduction in processing time. The generation of runoff triangles, which previously took 1-2 hours using excel, was optimized to complete in less than 5 seconds.
- Built a web app using R to analyze and visualize the performance of the various classes in Kenya's insurance industry. Leveraging R's plotly library, I created interactive visualizations that enabled users to explore and understand the data more intuitively. I used PostgreSQL to implement a robust backend solution capable of handling concurrent transactions seamlessly. The app significantly improved the efficiency of coworkers by providing them with a user-friendly interface to swiftly analyze the performance of different organizations within the insurance sector.
- Developed a system in R that automated the conversion of xlsx files to csv, addressing the challenge of handling large datasets split across multiple files. The application efficiently optimized processing speed by executing system calls through bash scripts. Its user-friendly interface allowed coworkers to easily customize column types and seamlessly merge multiple related datasets into a single consolidated file. The app's efficiency and flexibility made it a widely adopted solution within the team.

SKILLS

R/R Shiny

HTML, CSS & JavaScript

PostgreSQL

TOOLS

Git & GitHub

Docker

Linux

Bash

R/R Shiny Developer — Freelance

May 2020 - June 2021

- Collaborated with clients from diverse industries, including finance, healthcare, and e-commerce, to develop interactive data visualization applications tailored to their specific needs.
- Learned app deployment using docker and shinyproxy, skills which I use up to date.

EDUCATION

University of Nairobi, Kenya — BSC Actuarial Science

Sept 2018 - Sept 2022

- Second Class Honors (Upper Division)