Kennedy Mwavu

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Skills

Programming Languages: R, Rust
Version Control: Git, GitHub
APIs: RESTful API design & development
Containers: Docker
Cloud Platforms: Google Cloud Platform, Digital Ocean

Experience

Software Developer, ACTSERV – Nairobi   July 2021 – Present
- Revolutionized the efficiency of runoff triangle processing, cutting processing time from 2 hours to 10 seconds. This breakthrough significantly boosted analytical productivity and accuracy for client projects.
- Collaborated with the insurance team to develop comprehensive software modules for IFRS 17 insurance contracts, enhancing compliance, reporting accuracy, and operational efficiency.
- Designed RESTful APIs consumed by internal and external applications, ensuring secure and efficient data exchange when integrating with third-party services.
- Led a team of junior developers in the design, development and deployment of key software modules, providing mentorship and ensuring adherence to best coding practices.
- Developed automated data processing pipelines that reduced manual intervention, thereby minimizing errors and cutting down data processing time by over 80%.

Software Developer Consultant, SevenSkies – Nairobi   Jan 2023 – June 2023
- Implemented robust security measures, including encryption, authentication, and authorization protocols, safeguarding sensitive client data and ensuring compliance with industry standards.
- Transitioned legacy monolithic applications to a microservices architecture, improving system modularity, scalability and maintainability.
- Set up continuous integration and continuous deployment pipelines using GitHub Actions and Docker, enabling rapid and reliable application updates and deployments.
- Debugged and optimized R Shiny applications, improving performance and user experience.
- Deployed applications via Google Cloud Platform (GCP), ensuring seamless operation and scalability.

Projects

ambiorix   github.com/kennedymwavu/ambiorix-examples
- **Context:** Ambiorix is an R web framework
- **Contribution:** Enhanced error handling within the framework, fixed critical bugs, and developed comprehensive, end-to-end examples showcasing framework capabilities such as APIs, routing, and dynamic page rendering.

frbs   github.com/kennedymwavu/frbs
- **Context:** R wrapper for Google's Firebase Authentication REST API
- **Contribution:** Developed an R package that facilitates user authentication and account management in R applications and APIs via Firebase, allowing developers to manage user sessions efficiently in R environments.

rmon   github.com/kennedymwavu/rmon
- **Context:** An R package designed to improve development workflow
- **Contribution:** Built a package that automatically monitors and reloads R scripts, applications and APIs whenever changes are detected, significantly streamlining the development and testing process.

Education

University of Nairobi – BSc in Actuarial Science   Sept 2022