

# Kennedy Mwavu

Software Developer

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## Summary

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I am a software developer focused on the intersection of R, data systems, and web infrastructure.

## Skills

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**Programming Languages:** R, JavaScript, SQL

**Tooling:** Git, Docker

## Professional Experience

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**Founder, Sigflux Ltd** – Nairobi, Kenya

March 2025 – Present

- Software for data teams.

**Software Developer, ACTSERV** – Nairobi, Kenya

July 2021 – March 2025

- Significantly boosted analytical productivity and accuracy of insurance client projects by building a data web application that cut runoff triangle processing time from 2 hours to 10 seconds.
- Enhanced compliance, reporting accuracy, and operational efficiency by liaising with the insurance team to develop comprehensive software modules for IFRS 17 insurance contracts.
- Ensured secure and efficient data exchange with third-party services by designing RESTful data APIs consumed by internal and external applications.
- Provided mentorship and ensured adherence to best software development practices by leading a team of junior developers in the design, development, and deployment of key software modules.
- Minimized errors and cut down processing time by over 80% by developing automated data processing pipelines that reduced manual intervention.

**Software Developer, SevenSkies** – Nairobi, Kenya

June 2020 – July 2021

- Safeguarded sensitive client data and ensured compliance with industry standards by implementing robust security measures, including encryption, authentication, and authorization protocols.
- Improved system modularity, scalability, and maintainability by transitioning legacy monolithic applications to a microservices architecture.
- Enabled rapid and reliable application updates and deployments by setting up continuous integration and continuous deployment pipelines using GitHub Actions and Docker.
- Improved performance and user experience by optimizing data flow in existing R Shiny applications.
- Ensured seamless operation and scalability of applications by deploying them via Google Cloud Platform (GCP).

## Projects

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**Ambiorix** - Web framework

[ambiorix-web/ambiorix](#)

- Maintainer and core contributor.
- Improved error handling, fixed critical bugs, and authored end-to-end examples demonstrating routing, middleware, and templating.

**hypertext** - HTML element construction

[sigflux/hypertext](#)

- Lightweight, framework-agnostic R package for constructing and rendering HTML elements.
- Provides a deterministic Domain-Specific Language for building tag trees, supporting custom elements, raw HTML injection, and direct file rendering.