

Angelo Verlain Shema

Software Engineer

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[GitHub](#)

EXPERIENCE

RWARRI

Software Engineer | 2020 - 2024

- Developed a new organisational website with CMS, improving stakeholder communication and brand visibility.
- Created RwarriMS, a custom employee & finance management system, enabling 80% remote work and streamlining resource utilisation.
- Built a platform for refugee savings groups (GSLAs), facilitating financial tracking and increasing bank loan access by 60%.
- Managed cloud infrastructure and containerized applications, reducing costs by 50% through optimised resource use.
- Implemented Microsoft 365, ensuring seamless communication for all staff.

EDUCATION

African Leadership University, Kigali, Rwanda — Bachelor of Software Engineering

September 2023 - 2027

- Developed strong problem-solving and critical thinking skills through ALU's unique "missions, not majors" approach.
- Member of the first cohort of the Brainiacs club, which further improved my programming skills while working on real solutions with my peers.

PROJECTS

[Rabbet](#) - Link Page Builder.

- Developed a web service for creating simple, customised link pages
- Built with Fresh framework (Deno) and Deno KV database
- Focuses on user-friendly interface and quick page creation

[muse](#) — An InnerTube client

- Created a robust API client integrating Youtube Music (InnerTube) data
- Designed for seamless use in web, Node, and Deno applications
- Delivers data in an easily consumable format

[memories](#) — A photostream website

- Designed and implemented a minimal, efficient and responsive grid-format photo display website
- Powered by a custom-built web app named [river](#)

[Decibels](#) - An audio player for the Linux Desktop.

- Created an elegant, minimal audio player for GNOME Linux Desktop
- Recognized in GNOME Circle programme for outstanding third-party applications
- Focused on simplicity and efficient audio file management

[Muzika](#) - A music streaming client.

- Developed a full-featured desktop and mobile music streaming app
- Utilises libmuse library to access YouTube Music catalogue
- Serves 200+ users with a streamlined, intuitive interface
- Built with GJS (GNOME JavaScript + TypeScript) for GNOME

TECHNICAL SKILLS

Languages:

JavaScript/TypeScript, Python, C/C++, Java, Ruby, HTML/CSS, Visual Basic

Web Dev: React, Vue.js, Angular, Next.js, Express, Rails, Ruby on Rails, Remix, Astro, Gatsby, Fresh, Monorepos

Frontend: Redux, Zustand, Sass, Tailwind, Bootstrap, Webpack, Vite, SASS, Less, Stylus, Tailwind CSS, Bootstrap

Backend: Node.js, Deno, GraphQL, REST APIs, ESBuid, Bun, Webpack, Vitest, Jest, Babel

Database & CMS:

PostgreSQL, MySQL, MariaDB, SQLite, MongoDB, Redis, CouchDB, PouchDB, Mongoose, Payload, Wordpress

DevOps: Docker, Kubernetes, CI/CD, AWS, GCP, Azure, Linux, GitHub, Gitlab, Microsoft 365,

Desktop Apps: GNOME/GTK, GJS, Meson, Vala

Tools: Git, VS Code, Figma, Postman

Other: SEO, PWAs, Web Performance, Accessibility, i18n, USSD

LANGUAGES

Native Kinyarwanda
Casual English
Fluent French

EXTRA-CURRICULARS

Cycling
Hiking
Chess

ACCOMPLISHMENTS

Google Summer of Code (GSoC) 2024 Alum

GNOME Foundation member

Received an Outstanding Performance Award for my High School Diploma