# Angelo Verlain Shema

Impact-driven Software Engineer with 4+ years of experience building cloud-native platforms, developer tools, and open-source desktop applications. Strong background in full-stack web dev, GNOME technologies (GJS, GObject), and DevOps. GSoC 2024 Alum and GNOME Foundation member passionate about building tools that empower people and communities.

Software Engineer
Kigali, Rwanda

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**GitHub**
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## EXPERIENCE

### Founder and Technical Lead – Karabo Technologies Ltd
Kigali, Rwanda | 2024 - Present

- Built Karabo's MVP using Astro, MongoDB, Docker, and GCP, serving the needs of HR teams and improving reporting turnaround times by 3×.
- Engineered a custom TypeScript backend framework tailored for unique organizational needs.
- Oversaw branding, market research, and user experience design in alignment with HR compliance
- standards.
- Collaborated with early adopters directly to refine and implement custom features and workflows.

### Google Summer of Code 2024 — GNOME Foundation
Remote | Summer 2024

- Added TypeScript support to Workbench, GNOME's code playground, enabling a modern type-safe development experience for GJS developers.
- Integrated SDK compilation, linting via Biome, and LSP-based real-time type-checking.
- Ported demos and integrated ts-for-gir support for robust TypeScript prototyping.
- Worked asynchronously across time zones and contributed to GJS, gi-docgen, and libgweather in languages like C, Python, and Vala.

### Software Engineer & IT - RWARRI (Rwanda Rural Rehabilitation Initiative - NGO)
Kigali, Rwanda | 2020 - 2024

- Built RwarriMS, an employee and finance management system using NextJS and MongoDB, enabling 80% remote operations
- Launched a Payload CMS website using Astro to boost visibility and engagement.
- Developed a USSD platform for refugee savings groups, increasing bank loan access by 60%.
- Managed containerized infrastructure on GCP and Azure, reducing hosting costs by 50%.
- Deployed Microsoft 365 to streamline internal communication.

## EDUCATION

### African Leadership University, Kigali, Rwanda — *Bachelor of Software Engineering*
September 2023 - 2027

- Member of The Gym, Rwanda's most intensive full-stack developer training program designed to create Full-stack engineers for international markets.
- Graduate of Brainiacs Club; developed real-world tools with peers
- CodeXtreme 2023 & 2025 participant - AI-driven social solutions.
- Focus on Agriculture and Job Creation under ALU's missions model.

## SELECTED PROJECTS

- **Decibels** - GNOME audio player recognized in GNOME Circle: https://apps.gnome.org/en/Decibels
- **Muzika** - Streaming client built with libmuse & GJS: https://github.com/vixalien/muzika
- **Memories** - a website to display my past travels and other miscellaneous pictures: https://memories.vixalien.com
- **Others:** Rabbet, muse, Sticky Notes

## TECHNICAL SKILLS

**Languages & Frameworks:** TypeScript, Python, C/C++, Java, Ruby, Vala, React, Vue, Angular, Rails, Fresh, Remix

**Cloud & DevOps:** Docker, Kubernetes, GCP, Azure, AWS, CI/CD, Linux

**Databases:** PostgreSQL, MySQL, MongoDB, Redis

**Tools & Other:** Git, Figma, Postman, GNOME/GTK, GJS, Meson, SEO, PWAs, Accessibility, USSD

## LANGUAGES

Native Kinyarwanda
Fluent English
Fluent French

## HONORS & RECOGNITIONS

Google Summer of Code (GSoC) 2024 Alum

GNOME Foundation member

Received an Outstanding Performance Award for my High School Diploma