

Joel Aropet *Web Developer*

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📄 Profile

Frontend leaning fullstack developer with extensive experience building modern, dynamic, performant, and user-friendly web applications. I specialize in React and Next.js with TypeScript, leveraging modern libraries such as TanStack Query for data fetching and server state synchronization, Zustand for client state management, Zod for type-safe validation, and React Hook Form for reliable form handling. I am passionate about crafting modern, intuitive, and responsive user interfaces with careful attention to detail, ensuring consistent and high quality user experiences. While my core strength is frontend development, I also bring solid backend expertise with Node.js, FastAPI, and databases like PostgreSQL and MongoDB, enabling seamless end to end solutions. Experienced with CI/CD (GitHub Actions) and containerization (Docker), I thrive in cross-functional teams and am driven to build impactful products that expand financial inclusivity in underserved communities.

📁 Professional Experience

Systems Support Officer, ClinicMaster INTERNATIONAL	Dec 2024 – present Kampala, Uganda
- Frontend Development for ClinicMaster Web Application: Contributing to the development of the ClinicMaster web application, focusing on building responsive, user-friendly interfaces using React, Vite, TanStack Query, Zod, and React Hook Form. Ensuring high-quality UX through attention to detail and modern UI practices. - Installation & Troubleshooting: Supporting the deployment, configuration, and troubleshooting of ClinicMaster, ensuring smooth adoption and operational efficiency for healthcare providers. - Financial Integration Research: Collaborating with the team to research and test QuickBooks Online APIs for integration with ClinicMaster, aimed at streamlining financial workflows for healthcare organizations. - Digitization of HMIS Reports: Partnered with the development team to digitize Uganda's HMIS reports, optimizing SQL scripts to process backend data and leveraging JavaScript/React to build intuitive dashboards and interactive data visualizations, enhancing accessibility and decision-making for healthcare staff.	
Project Manager, AD Concepts Ltd	2021 – 2023 Kampala, Uganda
- Led High-Profile Projects: Directed the fabrication and installation of TotalEnergies Uganda booths, managing a \$17,000 project budget to deliver under budget and ahead of schedule. - Efficiency Improvements: Reduced project costs by 11% through strategic planning and optimization of resources.	

🎓 Education

Fullstack Software Engineering Backend, ALX Africa 	Feb 2023 – Apr 2024 Nairobi, Kenya
- Completed a comprehensive 12-month program covering both foundational and advanced software engineering topics, with a specialization in backend development. - Key Areas of Focus: Linux and Shell Scripting, C Programming and Data Structures/Algorithms (DSA), Python, JavaScript and React.js	

- Capstone project: Focused on the application of Just-In-Time (JIT) practices within Uganda's small and medium-scale industries, improving efficiency and reducing production costs.
- Developed strong problem solving, analytical, and technical design skills that directly complement my software engineering expertise.

Technical Skills

Next.js • TailwindCSS • Framer Motion • GSAP • Zustand • Tanstack Query • Zod •
Javascript/Typescript • Node.js • Nest.js • Prisma ORM • PostgreSQL • Docker • Git & GitHub •
Github Actions

Projects

Magazi AI, *FastAPI, MongoDB, Africa's Talking APIs, OpenAI* 

Jan 2025 – present

An initiative designed to democratize access to artificial intelligence for rural and underserved communities, where high percentages of the population lack internet access. The project leverages SMS based AI tools to enable essential services such as mobile financial transactions like airtime purchases, money transfers and chat.

Nyumbani Home Rental App,

Mar 2024 – present

FastAPI, MongoDB, Next.js, Zustand, Tanstack Query, TailwindCSS 

Nyumbani is a web-based property management app that simplifies the rental process for landlords and tenants in Uganda. Built with React, it uses Zustand for client-side state, TanStack Query for server-state, and React Hook Form with Zod for robust form handling and validation.

Samaki Aquacare, *NextJS, Framer-motion* 

Apr 2024 – Apr 2024

Samaki Aquacare is a project designed to support aquaculture farming by offering solutions for fish farmers.

Woodchopper.eu, *Wordpress* 

May 2024 – Jun 2024

An e-commerce platform for a stainless steel wood-splitting tool designed for safety and efficiency.

Hobbies

Basketball • Puzzling • Travelling • Football • Coding

References

Mwaka Joel, *Research Software Engineer*, Hitachi Rail

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Nalugwa Gloria, *Senior Business Analyst*, OpenCapital

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