

# Emmanuel O. P. Alabi

Software Developer

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## SUMMARY

Software developer and Computer Science student focused on full-stack web applications, developer tooling, and practical production systems. Experience building company websites, client management systems, dashboards, local-first applications, desktop software, and open-source backend infrastructure.

## EDUCATION

### BSc Computer Science | University of the People | Expected Jan 2027

Associate Degree in Computer Science, Apr 2026. Dean's List: 3×. Relevant coursework includes Software Engineering, Operating Systems, Computer Architecture, Digital Electronics, Professional Communication, and Ethics and Social Responsibility.

### MCIT Cybersecurity Certificate | IBM SkillsBuild | Jan 2026

Training in security posture evaluation, vulnerability assessment, network architecture, cloud infrastructure security, security operations, and incident reporting.

### High School Diploma | Acellus Academy | Dec 2023

Relevant coursework: AP Computer Science, AP Statistics.

## EXPERIENCE

### Software Developer / Web Developer | Comet Digital Ltd., Rwanda | Jan 2023 – Present

- Build and maintain Comet's official website through multiple iterations of the company's web presence.
- Develop a client management platform for Comet's lightbox advertising business, covering subscriptions, lightbox swaps, pending payments, contracts, and client onboarding.
- Build production web systems and interfaces using Next.js, React, Tailwind CSS, and Firebase.
- Work across frontend and backend concerns to translate operational workflows into usable company and client systems.

## OPEN-SOURCE CONTRIBUTIONS

### Open Source Kigali | OSK Backend

- Contributed to the backend of the Open Source Kigali website, including implementing API rate limiting to help protect endpoints against abuse and excessive request traffic.
- Worked within an Express, TypeScript, Prisma, and PostgreSQL codebase with Redis-backed rate limiting.

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, Python, Rust, Java, SQL, HTML/CSS

**Frameworks & Technologies:** React, Next.js, Astro, Vite, Tauri, Tailwind CSS, Firebase, Supabase, PostgreSQL, Prisma, Redis

**Tools & Platforms:** Git, GitHub, VS Code, Vercel, Netlify, NeonDB

## SELECTED PROJECTS

**MyDE** • Local-first browser IDE with LLM support for AI-assisted website development, built with Vite, React, and TypeScript.

**Livewall** • Lightweight Windows wallpaper engine built with Tauri, Rust, React, and TypeScript for video wallpapers.

**Beat Detection** • Python audio-analysis utility with Librosa and Essentia backends for beat, onset, drop, and transient detection, exporting timestamps and EDL markers for professional video editors.

**MyDoc** • Offline-first markdown editor with autosave and export functionality, built as a Next.js progressive web application.

## ADDITIONAL

**Languages:** English (Native Proficiency)