

Emmanuel O. P. Alabi

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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: 3x. Relevant coursework includes Software Engineering, Operating Systems, Computer Architecture, Digital Electronics, Professional Communication, and Ethics and Social Responsibility.

High School Diploma | Acellus Academy | Dec 2023

Relevant coursework: AP Computer Science, AP Statistics.

CERTIFICATIONS

MCIT Cybersecurity Certificate | IBM SkillsBuild | Jan 2026

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

CS50w: Web Programming with Python and JavaScript | Harvard University, via edX | 2023

Completed advanced web development coursework covering HTML/CSS, Git, Python, Django, SQL and database modeling, JavaScript, React-based user interfaces, APIs, testing and CI/CD, scalability, security, and application deployment.

CS50x: Introduction to Computer Science | Harvard University, via edX | 2022

Completed foundational computer science coursework covering computational thinking, abstraction, algorithms, data structures, memory and resource management, software engineering, security, and web programming, with hands-on work in C, Python, SQL, HTML, CSS, JavaScript, and Flask.

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 <https://github.com/emjkk/osk-backend>

- Contributed to the backend of the Open Source Kigali website, 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, including a full-featured code editor, local persistence, project/preferences storage, and GitHub export. Built with Vite, React, Monaco, JavaScript, and CSS. <https://github.com/emjkk/myde>
- **Livewall** — Live wallpaper and desktop widget engine for Windows 10/11, supporting image, video, and webpage wallpapers, interactive widgets, and media and desktop activity forwarding. Built with Tauri, Rust, React, and TypeScript. <https://github.com/emjkk/livewall>
- **Beat Detection** — Python audio-analysis utility using Librosa and Essentia backends to detect beats, onsets, drops, and transients, exporting timestamps and EDL markers for DaVinci Resolve, Premiere Pro, and other video-editing workflows. <https://github.com/emjkk/beat-detection>
- **MyDoc** — Offline-first Markdown editor with autosave and export functionality, built as a Next.js application. <https://github.com/emjkk/mydoc>
- **discord-nextjs-boilerplate** — Next.js Discord bot boilerplate that utilizes edge functions for a low-overhead Discord bot architecture. <https://github.com/emjkk/nextjs-discord-starter>
- **Dictionary** — Minimal Next.js and Tailwind CSS dictionary application using dictionaryapi.dev to provide definitions, pronunciation, and usage examples through a focused search interface. <https://github.com/emjkk/dictionary>
- **Personal Website** — Personal blog and portfolio website built with Astro, showcasing projects, technical work, and professional information. <https://github.com/emjkk/my>

ADDITIONAL

Languages: English (Native Proficiency)