

Eric Tumu Muheki

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EDUCATION

University of Windsor

Bachelors in Computer Science.

Windsor, Ontario – Canada

Completed

PROJECTS

[Coach Career](#) – AI Saas Career Guidance App | Next JS, TypeScript, Clerk, Neon

Completed

Postgres, Inngest

- Designed and developed a **full stack Saas AI powered web application** that delivers career related advice through interactive features such as; **an AI career chat, resume analysis, job compatibility feedback, and personalized career roadmaps.**
- Built with the **Next Js framework, tailwind CSS, Shadcn and spline components** for the front end, **Neon Postgres Database** for the backend storage and **Clerk** for handling and **payments and package plan options** as well as **OAuth User Authentication.**
- Integrated the **Inngest AI Agent Kit** to handle all the various AI related queries made from within the app.
- Implemented **cloud storage** using **imagekit.io** to **store and retrieve** user's resume data.
- Implemented **React Flow** to display a career Roadmap with information from the database.
- Deployed the **frontend on Vercel.**
- **Version control** maintained via **GitHub.**

[Time T](#) – AI Travel Planner App | React JS, Gemini AI, Firebase, Tailwind CSS

Completed

- Developed a **full stack AI powered web application** that generates **personalized trip planning advice** using **Google Gemini AI.**
- Built with the **React framework** (frontend) and **Tailwind CSS** alongside **shadcn UI** for a **responsive, modular, and accessible user interface** and **Firebase Database** for the backend storage.
- Integrated **Google Places API** for various functions such as **location-based suggestions** during trip planning, the new **Google Text search feature** for retrieving searched place images among others.
- Utilized **Firebase Authentication** to manage **secure user access and sessions.**
- Designed **backend logic** to **store and retrieve trip plan data** and stored the information on the **Firebase database.**
- Implemented **intelligent filtering** to help users **refine travel options** based on interests and preferences.
- Deployed the **frontend on Vercel.**
- **Version control** maintained via **GitHub.**

[TuMunch](#) - Food Ordering App | React JS, Express, MongoDB, NodeJS, Stripe
(MERN)

Completed

- Developed a **full stack web application** for food ordering, including a **product showcase, shopping cart, user Authentication, order management system, live order status, search functionality and payment integration.**
- Built with the **React framework** (frontend), **Express/Node.js** (backend), and **MongoDB** (database); payments processed using **Stripe API.**

- Created a **custom authentication system** in the backend to manage user sessions and persist cart data.
- Integrated a **food category filtering** feature that dynamically displays food items based on selected filters.
- **Hosted backend on Render**, used **UptimeRobot** to ping the webpage and configured **CI/CD pipelines** using **GitHub Actions**.
- Deployed frontend using **GitHub Pages**.
- **Version control** maintained via **GitHub**.

EchoLyf – Cross-Platform Music App | Flutter, Dart

Completed

- Developed a **cross platform mobile music player app** for **iOS** and **Android**, featuring a sleek **audio player**, **seek slider**, **album view**, **YouTube integration**, and a **Top 100 Music Chart**.
- Built using the **Flutter framework** and **Dart**, and tested with **Android Studio** on devices including **Pixel 9XL** simulators.
- Integrated **Audiomack API** for streaming real-time music content within the app.
- Included **news updates** using the **NewsAPI**, and weekly music chart data via the **KoreanThinker JSON** package
- Designed with responsive UI, including themed **progress indicators**, **page refresh animations**, and **search functionality** for music folders.
- **Version control** managed through **GitHub**.

Bayshore Library – Cross Platform Library Management App | Node JS, Typescript, Express, MongoDB, Flutter, Dart, Firebase

Completed

- Built a **full stack library management app** with role-based access: **Librarians** can **add, update, delete books**, while **Patrons** can **view and search books**.
- Frontend implemented using **Flutter** and **Dart**; backend built with **TypeScript**, **Express**, **NodeJS**, and **MongoDB**.
- Authentication handled via **Firebase**, with **domain-based routing** logic to direct users to different dashboards.
- Added **form validation**, **user input sanitization**, and **error handling** using **Express-Validator**.
- Configured **CI/CD pipelines** using **GitHub Actions**, deployed frontend on **GitHub Pages**.

TECHNICAL SKILLS

Languages: C, C++, java, python, dart, MySQL, MongoDB, NodeJS, assembly, HTML5, CSS3, JavaScript, R, typescript, Tailwind CSS

Frameworks: ReactJS, NextJS, Flutter, Django

Developer Tools: Android Studio, Visual Studio, IntelliJ, Git, GitHub, GitLab Blender, Postman, Insomnia, Thunder Client. AWS, Google Cloud, Azure, Firebase, Gemini AI, Clerk, Neon Postgres DB, Inngest

Other skills: Windows, MacOS, Linux, Unix, Microsoft Word, Microsoft Excel, Microsoft database, Microsoft PowerPoint, Microsoft publisher, Microsoft Outlook, Agile programming, Computer Networking, IT support, User Account Management, Version Control, Cybersecurity Basics, Error Debugging, Virtual environments, Canva, API integration, STFP, VPN's, Problem solving skills, Critical thinking, Quick decision making, SDLC, Kubernetes, Docker, Temporal, CI/CD