

Eric Tumu Muheki

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EDUCATION

University of Windsor

Bachelors in Computer Science.

Windsor, Ontario – Canada

Completed

PROJECTS

[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**.
- 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**.

Inventory Management Web App | Django, SQL Lite3, python, HTML5, CSS3

Completed

- Created a **CRUD-based inventory system** for managing company products with **auto-incrementing IDs**, **search**, **add/update/delete product** functionality.
- Developed using the **Django framework**, **SQLite3** for the database, and **HTML/CSS** for the frontend.
- **Version control** maintained through **GitHub**.

TECHNICAL SKILLS

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

Frameworks: ReactJS, Flutter, Django

Developer Tools: Android Studio, Visual Studio, IntelliJ, Git, GitHub, GitLab Blender, Postman, Insomnia, Thunder Client. AWS, Google Cloud, Azure, Firebase

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, API integration, STFP, VPN's, Problem solving skills, Critical thinking, Quick decision making, Software Development Life Cycle (SDLC), Kubernetes, Docker, Temporal, CI/CD