Eric Tumu Muheki

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EDUCATION

University of Windsor   Windsor, Ontario – Canada
Bachelors in Computer Science.   ***Completed***

PROJECTS

TuMunch - Food Ordering App | React JS, Express, MongoDB, NodeJS, Stripe   **Completed**
(**MERN**)

- 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 **Heroku** and configured **CI/CD pipelines** using **GitHub Actions**.
- Deployed frontend using **GitHub Pages**.
  Version control maintained via **GitHub**.

Bayshore Library – **Library Management App | Node JS, Typescript, Express,**   **Completed**
MongoDB, Flutter, Dart, Firebase

- 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**.
  Version control managed through **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**.

[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**.

[Flight Simulator (School Project)](#) | **Java, Java3D, Blender**   **Completed**
- Collaborated in a team of 6 to create a **3D space flight simulator** with **spaceship navigation** and **asteroid shooting mechanics**.
- Personally handled **audio integration** using **AudioInputStream** and **collision detection** with **WakeupOnCollisionEntry** in **Java3D**.
- 3D assets modeled using **Blender**.
- **Version control** used via **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