Samuel Echefu

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Education

University of Victoria   Victoria, BC
BSc (Computer Science, 2nd year)   *Sep 2024 — Apr 2028*

Experience

Frontend Intern   May 2025 — Sep 2025
ProperSeer   *Calgary, Alberta*

- Collaborated with the head developer through code analysis, ensuring high-quality, maintainable code for ProperSeer.
- Enhanced UI/UX by designing and implementing responsive interfaces using **React**, **Redux**, and **Bootstrap**, improving usability and user efficiency.
- Integrated Frontend with backend services, handling API calls, data flow, and gaining practical experience with **SQL Server**, **C#**, and **.NET** core.
- Developed features such as the Owner's Page, enabling owners of property to efficiently control their properties.

Projects

Survey Parser | *C*   Sep 2025 — Nov 2025

- Built a C-based file parser to process and normalize survey data using **Likert scaling**.
- Implemented efficient file I/O and string parsing while ensuring proper **memory management**.
- Worked closely in a **Linux** environment and leveraging tooling such as **make**, and compiler options.

VST Fingers – Open CV Camera Project | *Python, OpenCV, OSC*   Mar 2025 — Apr 2025

- Developed a real-time camera-based controller that detects finger positions using **OpenCV** with **~28 FPS** and **sub-40 ms** latency.
- Translated visual finger detection into **OSC messages** to control VST instruments within **Max 9**.
- Designed a reliable data pipeline to ensure low-latency communication between the Python application and audio software.
- Collaborated with another developer to coordinate interface design and system integration.

Certifications

The Web Developer Bootcamp   *2025-07*
Udemy

Skills

Programming Languages: Python, C, Java, JavaScript, TypeScript, HTML/CSS
Frameworks & Libraries: React, Redux, Express, Flask, Node.js, Tailwind CSS, Bootstrap
Databases: MySQL, SQL Server, MongoDB, Firestore
Developer Tools: Docker, Git, GitHub, Firebase
Soft Skills: UI/UX Design, Problem-Solving, Communication, Team Collaboration, Time Management