Melissa Goon

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EXPERIENCE

- **Google Summer of Code - Blender Foundation** — Remote
  Contributor — *May 2023 - September 2023*
  - Collaborated with a mentor to improve a large, open-source codebase, contributing features to Blender's UV Editor using **C**, **C++**, and **Git**.
  - Enhanced user experience by implementing a **UV Edge Slide** feature, enabling more precise and efficient adjustments during UV map editing.
  - Developed the **UV Random Select** tool, allowing users to make randomized selections with customizable parameters, improving workflow flexibility.
  - Introduced a **Merge By Distance Popup** for clearer visualization and improved user understanding of merging operations.
  - Delivered features driven by community input, demonstrating **adaptability**, **self-learning**, and the **ability to work independently** within an **open-source** environment.

EDUCATION

- **University of British Columbia** — Vancouver, BC
  B.Sc. Combined Major in Computer Science and Biology; Cumulative GPA: 82.6% — *(2019 – 2025)*

PERSONAL PROJECTS

- **Redcommend - Cmd-f 2023 Hackathon (Sponsor Prize Winner, Diversity in CS Mentorship winner)**
  - Collaborated with a team to create a Reddit thread summarization tool, leveraging the **Cohere language model API** and **Reddit API.**
  - Developed an intuitive and visually appealing website using **Flask**, **HTML**, and **CSS** to provide users with an efficient solution for summarizing lengthy discussions.

- **Adventure Awaits – NWHacks 2023 Hackathon**
  - Collaborated with a team to develop a full-stack web application enabling users to receive written directions to randomly interesting nearby locations, integrating the **Google Maps API**.
  - Utilized **Figma**, **HTML**, and **CSS** with the **Bootstrap** framework for the front-end development.

- **Course Average Viewer**
  - Created a website to visualize the average course grades at UBC over time and the ability to filter results by professor.
  - Developed the back-end using **TypeScript/JavaScript** and the front-end using **React**.
  - Gained experience with **agile methodologies.**

- **3D Portfolio Website**
  - Created a portfolio website with 3D elements using **Blender**, **React**, **Three.JS** and **Tailwind CSS**.

- **Flashcard App**
  - Independently built a program for creating and saving flashcards using **Java** and **Swing** for the UI.
  - Applied knowledge of object-oriented design and design principles acquired during the Software Construction course.

PROGRAMMING SKILLS

- **Languages**: Python, C++, Java, C, Typescript, Javascript, HTML, CSS   **Technologies**: Git, React, Flask

- **Relevant courses**: Introduction to Software Engineering, Intermediate Algorithm Design and Analysis, Computer Hardware and Operating Systems, Introduction to Computer Networking, Applied Machine Learning