

# Grace Gao

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## EDUCATION

### University of British Columbia

Sept. 2023 – May 2027

BSc, Combined Major in Computer Science and Mathematics (Intended)

Vancouver, BC

- **Cumulative GPA:** 4.33/4.33
- **Relevant Coursework:** Introduction to Computer Science, Software Construction (Object-Oriented Programming), Discrete Mathematics, Calculus I/II

## SKILLS

**Languages:** TypeScript, JavaScript, Python, Java, HTML, CSS, Bash

**Frameworks & Libraries:** React, Express, Node.js, Tailwind CSS, NumPy, pandas, Matplotlib

**Tools & Technologies:** MongoDB, Git, Figma

## EXPERIENCE

### TRIUMF Particle Accelerator

July 2023 – Aug. 2023

Summer Research Intern

Vancouver, BC

- Spearheaded the development of a responsive GUI to generate input files for the Radioactive Ion Beam Optimizer (RIBO) simulation program and saved approximately **2 hours** of manual work per file created
- Wrote **Bash** scripts to automate data collection and performed data analysis and visualization by aggregating results from **1000+** cycles of outputs produced by RIBO using **NumPy**, **pandas**, and **Matplotlib**
- Co-authored and presented a research paper exploring alternate temperature measurement methods of ISAC targets which will be published in early 2024

## PROJECTS

**Notable** | *Python, Flask, HTML, CSS, Bootstrap*

- Won **Best Education Hack out of 1000+ participants** at MesoHacks 2022 and **2nd place out of 94 participants** at Hack to School by building a note-sharing web application to tackle education accessibility
- Constructed user-friendly mockups in **AxureRP** and implemented an aesthetic and responsive UI with **Bootstrap**

**Flip-Flash** | *TypeScript, MongoDB, Express, React, Node.js*

- Launched a full-stack MERN application allowing users to create and upload flashcard decks which includes a sorting tool so users can organize decks for increased convenience
- Designed and implemented the front-end using **Figma** and **React**, and used **Express** and **Node.js** to build an API to interface with a **MongoDB** database

**Kanplan** | *React, JavaScript, Tailwind CSS, Auth0*

- Developed a kanban board web application where users can create, view, and sort lists of tasks to be completed which features a user authentication system built using **Auth0**
- Rendered engaging designs using **Figma** and developed them using **React**, **JavaScript**, and **Tailwind CSS**

## EXTRACURRICULARS

### UBC Launch Pad

Sept 2023 – Present

Software Developer

Vancouver, BC

- Used **React Native**, **Express** and **Firebase** to build a mobile seizure-tracking app (iOS and Android) for epilepsy patients to consolidate health management and communicate with carers as part of the EpiLog design team
- Migrated **10+** application UI components from Dart and Flutter to **React Native**

## AWARDS

Schulich Leader Scholarship - **\$100,000**

University of Waterloo Faculty of Mathematics National Scholarship (Computer Science) - **\$14,000**

TRIUMF Young Engineers and Scientists Fellowship - **\$4,000**

2022 Hypatia Math Competition - **Top 3% out of 4700**