

# Skyler Alderson

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## Professional Summary

Enthusiastic and detail-oriented recent graduate with a strong foundation in computer science and physics. Finds the best path to tackle a problem before starting. Adept at developing small-scale physics simulations, data analytics tools, and tools to solve math problems. Proven ability to solve complex problems, lead academic labs, and conduct research-based data analysis.

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## Education

**University of British Columbia** | GPA 3.90

- Bachelor of Science in Physics and Computer Science
  - Dean's List honoree on multiple occasions and former executive of UBC-O's Astronomy Club
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## Experience

### Undergraduate Academic Assistant (Research Position)

**University of British Columbia** | 4 months, 2024

- Developed Python scripts for data analytics on student submissions for physics laboratory.
- Conducted thematic analysis of interview and survey data and led semi-structured interviews.

### Computer Science Capstone Project

**University of British Columbia** | 4 months, 2023

- Wrote JavaScript for functional SQL and relational algebra editors.
- Developed Python backend to automatically create and grade SQL and RelAlg questions.
- CI/CD and full regression testing through DroneCI.
- Focused on full-stack development, achieving the highest grade in the class.

### Teacher's Assistant

**University of British Columbia** | 18 months, 2022-2023

- Led two undergraduate experimental physics laboratories.
- Assisted in creating class slides and Graded homework assignments.

### Volunteer, iGEM

**University of British Columbia** | 2022

- Designed frontend using CSS and HTML for the [iGEM wiki](#).
  - Contributed to the wiki's gold medal win in its category.
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## **Skills**

**Programming Languages:** Python, Java, JavaScript, C, Lua, minor familiarity with Rust and R.

**Data Analysis:** Python, numpy, thematic analysis, semi-structure interviews.

**Tools:** Git and GitHub, Docker, MacOS, generative AI, bash and zsh, Google Sheets and Excel.

**Physics:** Experimental design and execution, handling lab data, problem-solving, and modeling.

**Other:** Presentation skills, report writing, strong communication.