

Skyler Alderson

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Professional Summary

- Programs small physics simulations, data analytic toys, and video games as a hobby
- Enjoys solving challenging problems
- Recent graduate from the University of British Columbia
- Worked as a Teacher's Assistant to lead physics labs
- Worked as an Undergraduate Academic Assistant to conduct data analysis in physics laboratories

Education

- Two degrees from the University of British Columbia
 - Bachelor of Science in Physics and in Computer Science
- Have been on the Dean's List several times
- A previous executive of UBCO's Astronomy Club

Experience

- Undergraduate academic assistant, a research position (4 months)
 - Project was to investigate the effectiveness of replacing paaper lab manuals with a Python Notebook for early experimental physics laboratories
 - Wrote Python to perform data analytics on student submissions
 - Code and theme based analysis of interview and survey data
 - Lead semi-structure interviews with students
- Computer science capstone project: automatically creating and grading SQL/RelAlg questions for a third year course
 - Writing JavaScript for functional SQL and relational algebra editors
 - SQL
 - RelaX tool for relational algebra
 - Python for backend
 - Fullstack development, focus on SQL and the backend in Python
 - Project achieved the highest grade in the class
- Teacher's Assisatance for three semesters (18 months)
 - Lead two experimental physics labs
 - Helped create slides for the class
 - Graded homework

- Volunteer work for iGEM, a UBC club competing in an international competition in 2022
 - Frontend CSS and HTML work to design their website/wiki
 - The wiki won the [gold medal] for its category

Skills

- Coding
 - Python
 - Java
 - JavaScript
 - C
 - Lua
 - Minor familiarity with Rust and R
- Physics
 - Experimental design and conduct
 - Problem solving
 - Simulation and models
- Presentations
- Writing and reports
- Communication