Riley Wheadon

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EDUCATION

University of British Columbia	Jun. 2026
B.Sc. Honours Mathematics	Average: 93.5%
Westmount Charter School	Jun. 2022
High School Diploma	

COURSEWORK

Courses: Data Structures & Algorithms, Linear Algebra, Calculus I-IV, Complex Analysis, Ordinary & Partial Differential Equations, Object-Oriented Programming, Data Science.

Awards: Dean's List (2x), Royal Conservatory of Music Grade 10 Piano - First Class Honours (1x), Calgary Performing Arts Festival Gold (3x), Best Delegete - Canadian High School Model United Nations (2x).

SKILLS

Languages: Python, LaTeX.
Tools: Git, Unix Shell, Jupyter, Neovim.
Libraries: sympy, scipy, pandas, numpy, matplotlib, BeautifulSoup4.

PROJECTS

Canadian Legislation Visualization | *Python, pandas, matplotlib, BeautifulSoup4*   Jan. 2024
- Analyzed trends in 28 years worth of legislative data from the Canadian Government.
- Built a web scraper to acquire additional information from the Government of Canada's website.
- Visualized the data using Matplotlib and produced a brief report on the results.

EMPLOYMENT

University of British Columbia | *Student Researcher*   Apr. 2024 – Present

- Developed a biologically accurate mathematical model of root growth in *Arabidopsis Thaliana*.
- Presented results at the Canadian Undergraduate Mathematics Conference and various other seminars at UBC.
- Research was conducted as the recipient of an NSERC USRA under the supervision of Dr. Eric Cytrynbaum.

University of British Columbia | *Teaching Assistant*   Sep. 2023 – Present

- Lectured to classes of over 50 undergraduate students with the support of a graduate student.
- Provided supplementary instruction during differential and integral calculus workshops.
- Helped students develop mathematical communication skills through group work and written assignments.

Minds in Motion Calgary | *Programming Instructor*   Apr. 2023 – Aug. 2023

- Planned and delivered 40 hours of lessons per week on computer programming for campers aged 10-14.
- Worked closely with a team of over 30 instructors to foster a safe and inclusive learning environment.
- Ran workshops on science and technology for elementary school students across Calgary.

Cambridge Manor | *Volunteer Pianist*   Jan. 2021 - Jan. 2023

- Learned and performed piano music for the residents of the Cambridge Manor nursing home in Calgary.
- Provided entertainment to residents throughout the COVID-19 pandemic and during the holiday season.