

# Riley McNair

Year 4, Computer Science

rileymcnair3@gmail.com | 203-252-9994 | github.com/rpmcnair | https://rpmcnair.github.io/Website/

T: 604.822.9677 | F: 604.822.9676 | science.coop@ubc.ca | www.sciencecoop.ubc.ca

ubc science co-op



## Technical Skills

**Programming** : Python, R, SQL, Java, Stata, C++, C  
**Testing/Tools** : Junit, GitHub, JSON, Swing, Power BI

## Technical Projects

**Ski Resort Database** | Academic Project – SQL, Node.js, JavaScript Aug 2024

- Designed and implemented a relational ski resort database on an Oracle platform, creating structured tables and defining entity relationships to support efficient data management.
- Developed a dynamic user interface with Node.js and JavaScript, enabling access, retrieval, and interaction.
- Constructed advanced SQL queries to manage data operations, including multi-table joins, updates, deletions, inserts, and division, ensuring efficient and accurate data handling.

**Prediction Modeling Voter Turnout** | Personal Project - R April 2024

- Built a prediction model utilizing advanced statistical methods to predict voter turnout in the US 2020 election.
- Conducted exploratory data analysis to identify key variables impacting voter turnout, employing statistical techniques like forward selection and ridge regression to handle multicollinearity and enhance model reliability.
- Implemented a model selection process using cross-validation, to improve predictive accuracy.

## Work Experience

**Student Analyst, Canada Revenue Agency** | Vancouver, BC Sept 2024 – May 2025

- Utilized SQL to extract tax datasets from the ADW, creating advanced queries that supported data-driven decision-making.
- Applied Python for hypothesis testing and sampling, employing statistical techniques to evaluate tax data trends.
- Used Python, R, and Power BI to design visualizations and detailed tables, which were used in reports for internal teams and external departments.

**Childcare Provider (Nanny)** | Vancouver, BC Mar 2021 – Sept 2024

- Nanny for a single-family, providing childcare, tutoring, and support to ensure the well-being and development of their child; managed a structured routine, effectively coordinating and balancing various daily activities.

**Trail Ride Guide, Banff Trails** | Banff, AB May 2022 – Sept 2022

- Provided guided horseback tours through Banff National Park, creating immersive and educational experiences, enhancing guest trips by showcasing the park's natural beauty and wildlife.
- Collaborated in a team to coordinate daily tasks and manage daily operations involving 150 guests and overseeing the welfare of 300 horses while maintaining safety in an environment inhabited by bears, elk, and other wildlife.

## Volunteer Experience

**VP Finance** | Political Science Student Association, UBC April 2021 – May 2022

- Managed the PSSA club's budget and financial accounts with precision and diligence, ensuring accurate record-keeping and financial transparency; collaborated with an executive team to design and execute club events.
- Organized and executed successful fundraisers to secure additional funding for club activities and initiatives.

**VP Panhellenic** | Delta Gamma, UBC Dec 2020 – Dec 2021

- Facilitated inter-sorority communication; addressed and resolved issues and conflicts effectively; directed a team of 3 directors; organized community service projects and sporting events.

## Education

**Bachelor of Computer Science**, University of British Columbia | Vancouver Anticipated Graduation: Dec 2025

**Bachelor of Arts (Political Science, Minor in Economics)** University of British Columbia | Vancouver, BC May 2022

## Interests

Skiing | Hiking | Climbing | Baking