

Riley McNair

Year 3, 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

Programing : Java, Python, R, Stata, C/C++

* Currently Acquiring

Testing/Tools : Junit, GitHub, JSON, Swing

Technical Projects

Election Kiosk | Academic Project – Java, JSON, Java Swing, JUnit

Dec 2023

- Developed a Java desktop application enabling election staff to manage candidates, record winners, and link parties, to easily organize the election process by applying OOP design principles using UML.
- Created a user-friendly Swing-based GUI that facilitated voters' access to candidate profiles and election details, improving voter engagement and information transparency.
- Implemented data persistence using JSON and wrote several JUnit tests to ensure complete code coverage.

Prediction Modeling Voter Turnout | Personal Project - R

April 2024

- Built a prediction model utilizing advance 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

Childcare Provider (Nanny) | Vancouver, BC

Mar 2021 – Present

- Dedicated nanny for a single-family, providing childcare 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

05/2022 – 09/2022

- 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.

UBC Jumpstart | Orientation Leader | Vancouver, BC

08/2019 – 09/2019

- Led a group of 30 first-year students through an orientation program; curated and executed engaging events to foster meaningful connections, promoting camaraderie and a sense of belonging to the University.
- Maintained proactive communication with families of incoming students, addressing inquiries and concerns.

Volunteer Experience

VP Finance | Political Science Student Association, UBC

04/2021 – 05/2022

- 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

12/2020 – 12/2021

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

Fundraising Lead | Delta Gamma Foundation

12/2019 – 12/2020

- Managed the budget and revenue for philanthropic events; led a team of 6 to fundraise for bi-yearly events.

Education

Bachelor of Computer Science (BCS), University of British Columbia | Vancouver

Sep 2023 – Present

BA (Political Science), University of British Columbia | Vancouver, BC

Graduated: 2022

Interests

Avid Skier | Backpacker | Hiker