

Work Experience

Thrive Health Sep 2020 - Present

Software Developer Intern

Research Assistant

Research Assistant

Vancouver, BC

- · Front and back-end development using Node.js, TypeScript, React, Redux, HTML5, CSS, Postgres
- Implement accessibility improvements to the Canada COVID-19 App to enhance usability for visually impaired users
- · Collaborate with the UX team to design, develop, and test product UI for screen reader compatibility

UBC Aging, Mobility, and Cognitive Neuroscience Lab

Nov 2016 - Jun 2019

Vancouver, BC

- · Study coordinator for a 6-month randomized controlled trial on sleep, aging, and cognition involving 96 seniors
- · Developed and managed REDCap and FileMaker databases for over 7 longitudinal studies with over 700 total participants
- Streamlined processing of cognitive data using automated scripts in R and Excel
- · Recruited, screened, and administered cognitive tests and physical assessments on over 300 participants

BC Children's Hospital Research Institute

Jan 2015 - Sep 2015

Vancouver, BC

- Co-managed 2 pediatric diabetes studies, collected clinical data, and conducted preliminary data analysis
- · Designed study components related to recruitment, logistics, and data collection and management

Projects

Potatofy | Python

- · Questrade integrated desktop GUI application for simplified rebalancing of investment portfolios
- · Calculates shares to buy/sell using current market prices to achieve users' target asset allocations
- · Securely requests user financial information using OAuth 2.0 authentication via the Questrade API

contrast-checker | Rust

- Rust-based CLI tool for calculating contrast ratio between two colours based on Web Content Accessibility Guidelines
- Implemented support for calculations using RGB or Hex colour models

ADASPlusML | Python, Scikit-learn, pandas

- Trained a machine learning model with Scikit-learn to score the ADAS-Cog Plus cognitive assessment for Alzheimer's Disease
- Performed 10-fold cross validation to test the accuracy of the multiple linear regression model

InsightUBC | TypeScript, JavaScript

- · Full stack software engineering project for parsing and querying datasets with UBC building and course data
- Designed database and implemented an interpreted Abstract Syntax Tree (AST) query language
- Implemented REST endpoints to handle dataset and query API requests from a front-end controller

Education

University of British Columbia

Sep 2019 - Present

Bachelor of Computer Science (Integrated Computer Science)

Vancouver, BC, Canada

- Cumulative GPA: 92.1%
- Expected graduation: December 2021

University of British Columbia

Sep 2011 - May 2016

Bachelor of Science in Integrated Sciences (Neuroscience & Physiology)

Vancouver, BC, Canada

• Cumulative GPA: 86.3%

Skills

Languages TypeScript, JavaScript, Java, Python, Rust, C++, R, SQL, HTML, CSS

Tools Git, Node.js, PostgreSQL, Docker, LaTeX Frameworks React, Redux, JUnit, Mocha, Chai, REDCap