Patrick Chan







Skills

Java, TypeScript, JavaScript, Python, C++, R, HTML, CSS Languages Git, Node.js, Yarn, JUnit, Mocha, Chai, REDCap, LATEX **Tools & Frameworks**

Work Experience

UBC Aging, Mobility, and Cognitive Neuroscience Lab

Nov 2016 - Jun 2019

Research Assistant

Vancouver, BC

- · Study coordinator for 6-month randomized controlled trial on sleep, aging, and cognition in seniors
- · Developed and managed multiple Redcap databases and FileMaker Pro databases for longitudinal studies
- · Processed cognitive data using R and Excel, and used MotionWare to process sleep data
- Recruited and screened participants, administering cognitive tests and physical assessments

BC Children's Hospital Research Institute, Amed Lab

Jan 2015 - Sep 2015

Research Assistant (Co-op)

Vancouver, BC

- Co-managed 2 studies on pediatric diabetes, collected data, and performed preliminary data analysis
- · Assisted with study design related to recruitment, logistics, and data collection and management
- · Recruited patients in clinics at BC Children's, Surrey Memorial, and Abbotsford Regional Hospital

Providence Health Care Research Institute, Orthopaedics

May 2014 - Dec 2014

Research Assistant (Co-op)

Vancouver, BC

- Independently managed over 6 foot and ankle orthopaedic research studies
- · Actively practiced research ethics, developing study protocols and ethics applications
- · Recruited participants, coordinated study clinic visits, and administered questionnaires

Projects

Potatofy | Python

- Questrade integrated investment portfolio rebalancing service
- Calculates the number of assets to buy and sell to achieve a target asset allocation
- Securely requests user financial information through the Questrade API using OAuth 2.0 authentication

InsightUBC | TypeScript, JavaScript

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

MemoMaker | Java

Music memo notation application that allows users to save and display a text based representation of music

Education

University of British Columbia

Sep 2019 - Present

Bachelor of Computer Science (Integrated Computer Science)

Vancouver, BC, Canada

Expected graduation: September 2021

University of British Columbia

Bachelor of Science in Integrated Sciences

Sep 2011 - May 2016

Vancouver, BC, Canada

- Graduated with Distinction, Co-operative education program
- · Specialization in Human Physiology and Cognitive Neuroscience