Patrick Chan

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Technical Skills

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

Work Experience

UBC Aging, Mobility, and Cognitive Neuroscience Lab   Nov 2016 – June 2019
Research Assistant   *Vancouver, BC*

- Study coordinator for 6-month randomized controlled trial on sleep, aging, and cognition
- Develop and manage multiple Redcap databases and FileMaker Pro databases for longitudinal studies
- Data processing of cognitive data using R and Excel, processing of sleep data using MotionWare
- Recruit and screen participants, administer cognitive tests and physical assessments on seniors

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
- Maintained professional liaison with healthcare professionals and industry contacts
- Recruited participants, coordinated study clinic visits, and administered questionnaires

Projects

Potatofy | Investment portfolio rebalancing notification service built in Python

- Sends the user notifications based on their target asset allocation and market movement
- Uses OAuth 2.0 to securely request and transmit financial data through the Questrade API

MemoMaker | Music memo notation application built in Java

- An input based application that displays a textual based representation of musical objects

Education

University of British Columbia   Sep 2019 - Present
Bachelor of Computer Science (Integrated Computer Science)   *Vancouver, BC, Canada*

- Expected graduation: May 2021

University of British Columbia   Sep 2011 - May 2016
Bachelor of Science, Integrated Sciences   *Vancouver, BC, Canada*

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