







# **Work Experience**

**Amazon Web Services (AWS)** July 2022 - Present

Software Development Engineer I

· Simple Queue Service (SQS) Workload Management & Automation Team

· Full stack develgtopment using Kotlin, Java, Spring, and JUnit

### **Amazon Web Services (AWS)**

May 2021 - Aug 2021

Vancouver, BC

Software Development Engineer I Intern

Vancouver, BC

- Full stack development on the Simple Queue Service (SQS) Workload Management Team using Kotlin, Java, Spring, and JUnit
- · Streamlined on-call operator workflows for identifying, diagnosing, and resolving issues
- Improved internal operational dashboard visibility of critical backend metrics and alarm states

Thrive Health Sep 2020 - Apr 2021

Software Developer Intern

Vancouver, BC

- Full stack development using Node.js, TypeScript, React, Redux, PostgreSQL, HTML5, CSS
- Developed and maintained a scalable RESTful API integration for generating bulk COVID-19 test requisitions using AWS Lambda, Amazon SQS, and Amazon S3
- Increased the speed of costly user access checks by approximately 500% by identifying a use case for caching
- Improved accessibility of the Canada COVID-19 App to meet WCAG 2.0 guidelines by streamlining screen reader behaviour with clear ARIA labelling and component hover & focus states

# **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

## Education

#### **University of British Columbia**

Sep 2019 - Present

Bachelor of Computer Science (Integrated Computer Science)

Vancouver, BC, Canada

- Cumulative GPA: 92.1%
- Expected graduation: May 2022

#### **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 Java, Kotlin, TypeScript, JavaScript, Golang, SQL, Python, Rust, C++, R, HTML, CSS

Git, Node.js, PostgreSQL, Docker, LaTeX Tools

**Frameworks** Spring, JUnit, Mockito, React, Redux, Mocha, Chai, REDCap