

MACKENZIE HIGA

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EDUCATION

Vancouver, BC

Simon Fraser University

Graduation: Dec 2019

- **Major:** Computer Science, BSC.

SKILLS

Programming Languages: C/C++, Python, Go, JavaScript, HTML & CSS (SASS), Swift, Java

Frameworks: React JS, JavaFX, Valgrind, Jest, Git

Academic Work: Data Structures & Algorithms, Operating Systems, Databases, Distributed Systems, Data Mining

OS: Linux/Unix, Mac, Windows, iOS

WORK EXPERIENCE

Web Developer - MuseFind Inc.

Oct 2016 - May 2018

- Built frontend web applications using **React JS** to create/maintain relationship management platform
- Created **automated testing suite** for MuseFind using **Jest** and **Enzyme** to eliminate manual functionality testing
- Developed interface with **Instagram** and **Facebook APIs** using **OAuth** to manage and store profile data
- Trained and mentored junior developers

QA Test Analyst II - BestBuy Canada Ltd.

May - Nov 2015

- Ran **regression** and happy-path tests on new system builds to ensure platform remained stable
- Created automated tests in **C++** to eliminate redundant manual testing

SOFTWARE PROJECTS

Mock Blockchain Miner (Comparative Programming Languages Course)

Dec 2018

- Developed mock blockchain miner using **Go** with an emphasis on **go-routines** and parallelism

A* Search w/ GUI (Personal)

Nov 2018

- Built **Python** application that implements **A* search** with a **GUI** to give a visual representation of the algorithm
- Application uses **Tkinter** for the UI, and involves **multithreading** to allow A* search and the GUI to run concurrently

Consumer/Producer Buffer (Operating Systems Course)

Oct 2018

- Created in **C** - bounded buffer that produces and consumes objects in parallel
- Program involved **multithreading**, **deadlock prevention**, **semaphores**, and memory-management

FlixFinder (Personal)

Nov 2017

- Created **Chrome Extension** in **React JS** to search for movie/tv reviews through **theMovieDB API**
- Wrote **Technical Article** about creating **Chrome Extensions in React** with **20,000+ views** and **1.4K+ likes** (<https://engineering.musefind.com/how-to-build-a-chrome-extension-with-react-js-e2bae31747fc>)

ClarityHierarchy (Intro to Software Engineering)

Apr 2017

- Acted as **Team Lead** to develop anxiety management **iOS** application for software engineering course
- Developed in **Swift** using **internal memory storage**, and **storyboards**

INTERNATIONAL VOLUNTEERING

CISV International

May 2008 - Present

- A global NGO that conducts international youth programmes across the world
- Member of National Leadership Training Committee (NLTC) for CISV Canada
- Responsibilities include facilitating training weekends across Canada for adults to attend International CISV programs

AWARDS + INTERESTS

- Dean's List Spring - 2018
- Memorial Fund Winter Recipient - 2018
- Interests: Instruments, Fitness, Travelling, Latin America, Books, Film, Rugby, Football, and Ping Pong