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, JavaScript, HTML & CSS (SASS), Haskell, Java, Swift, Assembly

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

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

OS: Linux/Unix, Mac, Windows, iOS

WORK EXPERIENCE

Web Developer - MuseFind Inc.

Oct 2016 - May 2018

- Developed frontend application using **JavaScript** (**React JS**), **HTML & CSS** (**SASS**) to create/maintain relationship management platform
- Created automated testing suite for platform 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

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 System - CMPT 300)

Oct 2018

- Created bounded buffer in C where a producer thread creates objects, and a consumer thread removes 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
- Connects to the Movie DB API for reviews and links back to respective review webpage
- 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 - CMPT 276)

Apr 2017

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

INTERNATIONAL ENGAGEMENT

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
- · David And Brenton Nichols Award 2014
- Interests: Instruments, Fitness, Travelling, Latin America, Books, Film, Rugby, Football, and Ping Pong