

# Scott Chu

skchu@ualberta.ca | 780-680-2820 | scottchu.co

## EDUCATION

**UNIVERSITY OF ALBERTA | BSc. COMPUTER SCIENCE**

Edmonton, AB | Sept 2018 - April 2022

NSERC Undergraduate Research Award 2020

Alexander Rutherford Scholarship 2018

## EXPERIENCE

**ALBERTASAT | SOFTWARE ENGINEERING INTERN**

Edmonton, AB | May 2020 – Present

- Developing interfacing software between Ex-Altas 2's on-board computer and payload.
- Programming SoC with payload subsystem API functions such as image compression.
- Assisting payload team in devising circuit board designs and test plans.
- Working with a software team using Git/Github to maintain clean code base.

**UNIVERSITY OF ALBERTA | RESEARCH ASSISTANT**

Edmonton, AB | March 2020 – Present

- Game AI research. Supervised by Dr. Matthew Guzdial.
- Developing a machine learning agent that predicts rewards given by human to an existing agent.
- Writing TensorFlow code to implement LSTM machine learning agent.
- Assisting in writing and reviewing research papers for upcoming conferences.

**KUMON LEARNING CENTRE | TEACHING ASSISTANT**

Edmonton, AB | June 2017 – August 2019

- Assisted students (ages 3-18) with various levels of reading, writing, and mathematics.
- Communicated with parents to create an enjoyable learning environment for students.
- Entrusted with the responsibility of managing the centre's homework supply.
- Given the keys to the building and put responsible for opening and closing the centre.

## SKILLS

**LANGUAGES** C++, C, Python, JavaScript, HTML, CSS,  $\LaTeX$

**OTHERS** Bootstrap, Git, Beautiful Soup, FreeRTOS, TensorFlow, Arduino, Linux

## PROJECTS

**ARDUINOMAP | C++, ARDUINO, GIT**

<https://github.com/howtobescott/ArduinoMap>

- Arduino program using TFT display and joystick controls to find shortest routes between two locations.
- Implemented Dijkstra's algorithm to calculate shortest distance between two points.
- Established communication between server and client with finite state machine implementation.

**LETTERWRITER | PYTHON, BEAUTIFUL SOUP, GIT**

<https://github.com/howtobescott/LetterWriter>

- A simple Python cover letter generator.
- Utilized Beautiful Soup to scrape LinkedIn and Indeed for job postings.
- Wrote Python script to collect key words from job postings.

**RESTAURANT FINDER | C++, ARDUINO, GIT**

<https://github.com/howtobescott/restaurantFinder>

- Arduino program that locates restaurants and sorts them based on rating and proximity.
- Implemented Quick Sort and Insertion Sort algorithms.
- Created user interface using TFT display and Arduino.