Scott Chu

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

EDUCATION

UNIVERSITY OF ALBERTA | BSc. Computer Science   Edmonton, AB | Sept 2018 - April 2022

NSERC Undergraduate Student Research Award 2020
Alexander Rutherford Scholarship 2018

EXPERIENCE

ALBERTASAT | Software Engineering Intern   Edmonton, AB | May 2020 – August 2020

- AlbertaSat is developing the University of Alberta's next satellite, set to launch in late 2021.
- Implemented interfacing protocols such as CAN bus and SPI for subsystem communication.
- Implemented loseless data compression and heuristic algorithms on multi-spectral images.
- Programmed and tested real time operating system applications on Intel development boards.
- Worked with a team using Git/Github to review and deploy code.

UNIVERSITY OF ALBERTA | Research Assistant   Edmonton, AB | March 2020 – July 2020

- Game AI research. Supervised by Dr. Matthew Guzdial.
- Wrote Python scripts to parse and format data suitable for LSTM architecture.
- Created LSTM machine learning agent to predict reward based on previous human study.
- Assisted 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.
- 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.
- Communicated with clients to create a learning environment catered for their children.

PROJECTS

ARDUINOMAP | C++, Arduino, Git   https://github.com/howtobescott/ArduinoMap

- Arduino program that finds shortest routes between two locations.
- Implemented Dijkstra's algorithm to calculate shortest distance between points.
- Established communication between server and client with a finite state machine.

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 a Python script to collect key words from scraped data.

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 Mega.

SKILLS

Languages	C++, C, Python, JavaScript, HTML, CSS, LaTeX
Others	Bootstrap, Git, Beautiful Soup, FreeRTOS, TensorFlow, Arduino, Linux