

Scott Chu

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EDUCATION

UNIVERSITY OF ALBERTA

BSc. SOFTWARE ENGINEERING

Sept 2018 - April 2022

Alexander Rutherford Scholarship

LINKS

LinkedIn:// [scottchuyeg](#)

GitHub:// [howtobescott](#)

DevPost:// [howtobescott](#)

SKILLS

LANGUAGES

Python • C++ • JavaScript • MATLAB
• Bash • HTML • CSS • \LaTeX

FRAMEWORKS

React • Bootstrap • jQuery
• Beautiful Soup

OTHERS

Git/GitHub • Arduino • MacOS •
Windows • Ubuntu • MS Office

COURSEWORK

Efficient Algorithms
Data Structures
Object Oriented Programming
Digital Logic System Designs
Electrical Circuits
Discrete Mathematics
Differential Equations
Calculus 1-3
Linear Algebra

OTHERS

WORLD CUBE ASSOCIATION

Volunteer and Competitor

Official 3x3 Rubik's cube time of 12.62s

Official 3x3 one-handed time of 26.98s

Judged officially sanctioned solves

EXPERIENCE

ALBERTASAT | SOFTWARE ENGINEERING INTERN

May 2020 – August 2020 | Edmonton, Canada

- Incoming Software Engineering Intern at AlbertaSat.
- AlbertaSat | Ex-Altas 2 Satellite. Supervised by Dr. Jie Han.
- Funded by NSERC Undergraduate Student Research Award.

UNIVERSITY OF ALBERTA | RESEARCH ASSISTANT

March 2020 – Present | Edmonton, Canada

- Game AI research. Supervised by Dr. Matthew Guzdial.

KUMON LEARNING CENTRE | TEACHING ASSISTANT

June 2017 - August 2019 | Edmonton, Canada

- Assisted students (ages 3 – 18) with various levels of reading, writing, and mathematics.
- Regularly communicated with parents regarding their children's learning to create a better learning experience for students.
- Entrusted with the responsibility of checking, ordering, and organizing the centre's homework supply.
- Given the keys to the building, and put responsible for opening and closing the centre.

PROJECTS

ARDUINOMAP

C++, Arduino, Git

Arduino program using TFT display and joystick controls to find shortest routes between two locations on a map. Using Dijkstra's algorithm to calculate shortest distance between two points. Communication between client and server established with finite state machines.

LETTERWRITER

Python, Beautiful Soup, Git

Python web-scraping program that scrapes LinkedIn and Indeed and generates cover letters with the scraped job postings.

RESTAURANT FINDER

C++, Arduino, Git

Arduino program that locates restaurants and sorts them based on rating and proximity to a selected location using Quick sort and Insertion Sort. Utilizing classes and structures to organize data. User interface using TFT display and the Arduino.

STREAKTIMER

JavaScript, jQuery, HTML, CSS, Git

A Rubik's cube timer that keeps track of consecutive solves under a certain goal time.

RSA CHAT

C++, Arduino, Git

Arduino program that generates RSA encryption keys to encrypt/decipher messages sent between two Arduinos. RSA keys generated using bitwise operations and modular arithmetic. Connection between two Arduinos established using finite state machines.