SHERMAN CHOW

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Technical Skills

Languages	Applications	Operating Systems	Concepts
• Python	• Eclipse	• Windows	• Abstract Data Types
• Java	• Xcode	• Mac OS	• Sorting Methods
• C	• Microsoft Visual Studio	• Linux	• Object-Oriented Programming
• C++	• Subversion	• iOS	• TLV Encoding
• HTML	• Fossil	• Android	• Agile Development
• CSS	• Git		
• JavaScript	• Microsoft Office		
• MATLAB	• Adobe Photoshop		
• Julia	• Adobe After Effects		
• Assembly Language (x86)			

Education

Bachelor of Applied Science – Major in Computing Science   **Sept 2013–Present**
Simon Fraser University | Burnaby, BC
- Studied one year abroad at *Zhejiang University* in Hangzhou, China (Sept 2014–June 2015)
- Dean's Honour Roll, achieved a 3.50 or higher GPA (Spring 2016)

Related Work Experience

Software Engineer Co-op   **Jan 2017–Aug 2017**
Sierra Wireless Inc. | Richmond, BC
- Develop software, analyze defects, and verify bug fixes for our *AirPrime* modules, with a team of 12 people
- Develop APIs in C++ using TLV encoding to add new support for our products
- Investigate new features using Microsoft Azure and mobile device management solutions to develop new capabilities for our products

Technical Projects

Shogi Japanese Chess Game   **Sept–Dec 2016**
Introduction to Software Engineering (CMPT 276) – Simon Fraser University | Burnaby, BC
- Collaborated with a team of 5 students to develop a chess game in Julia (programming language) with artificial intelligence, a graphical user interface, and networking capabilities
- Developed multiple AI difficulties using the minimax search with alpha-beta pruning and Monte Carlo tree search algorithms
- Integrated components and fixed bugs to ensure a runnable software on multiple operating systems and a high quality final product

English-Klingon Translator   **May–June 2016**
Data Structures & Programming (CMPT 225) – Simon Fraser University | Burnaby, BC
- Designed an English-Klingon (language of fictional characters in Star Trek) translator in C++ using a binary search tree and a hash table to translate words
- Created a binary search tree by using a doubly linked list to insert and display all words in the translation library in sorted order efficiently
- Created a hash table by using chain hashing to avoid collision and a singly linked list to translate individual words from the command line

Bank Simulation Application   **May–June 2016**

Data Structures & Programming (CMPT 225) – Simon Fraser University | Burnaby, BC

- Developed an event-driven simulation of a bank in C++ using a circular queue and a priority queue to manage and process customers efficiently in priority order
- Created a priority queue by using a singly linked list to insert and remove customers from the priority queue

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Personal Projects

Personal Webpage   **Mar 2017**

Personal Project | scc23.github.io

- Developed a webpage with a personal biography and photo gallery using HTML, CSS, and JavaScript

Tic-Tac-Toe Game   **Jan 2017**

Personal Project

- Developed a Tic-Tac-Toe game in Python with a graphical user interface and artificial intelligence using the minimax search algorithm

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Other Work Experience

Local Referee   **Dec 2011–June 2014**

Volleyball BC | Vancouver, BC

- Coordinated volleyball competitions smoothly by making quick and confident decisions under pressure to control the flow of the games

Promoter   **Apr–June 2012**

Gold's Gym | Vancouver, BC

- Promoted events for the fitness center by engaging with and encouraging people on the street to sign up for memberships

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Volunteer Experience

Head of High School Fundraising Association   **Sept–June 2013**

Heart2Heart Canadian Youth Society | Vancouver, BC

- Organized our 7th annual charity banquet with a team of 12 students, and raised over $80,000 to help build schools for children in rural China
- Spread awareness for the event, sold tickets, and encouraged people to attend

Adjudicator Assistant   **July 2013**

Kiwanis Music Festival | Vancouver, BC

- Greeted participants and ensured that they were well-informed of competition procedures
- Assisted the adjudicator with announcements and organizing paperwork to ensure competition results were accurately reported

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Interests

- 10+ years of experience playing the piano and violin
- Strong interest in visual arts and video games
- 5 years of experience snowboarding