

# Calvin Chen

<https://calvinc03.github.io/website/>

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## Technical Skills

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<b>Programming</b>	Python, Java, C, C++, x86 Assembly, JavaScript, HTML/CSS
<b>Testing</b>	JUnit, Pytest, Appium, Selenium
<b>Tools</b>	IntelliJ, Visual Studio, Latex, Microsoft Applications, Linux Command Line

## Education

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### Bachelor of Science - Math and Computer Science

University of British Columbia, Vancouver, BC

**Expected Graduation: May 2021**

## Relevant Work Experience

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### Eventbase Technology - QA Analyst

Vancouver, BC

July 2019 - Present

- Designed automated test cases using Selenium webdriver tools to test and maintain the functionality of our backend, frontend and mobile UI features through every product release
- Utilized a variety of manual debugging testing tools such as Charles proxy and Postman to collect and analyze calls made to third party APIs
- Worked collaboratively with project managers and developers to maintain and develop action plans focusing on the custom features of the product

## Relevant Courses

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### CPSC 210 - Software Construction

Developed knowledge of Object Oriented Programming concepts such as Inheritance classes and encapsulation through program design using Java and gained elementary understanding of UI through the usage of simple functions and data types to create a mobile application for Android

### CPSC 320 - Intermediate Algorithms and Data Structures

Designed programs to reduce the time complexity of polynomial time algorithms through dynamic programming and developed an intermediate understanding of graph theory and their algorithms to model real life problems through the reduction of known problems

### CPSC 340 - Data Mining and Machine Learning

Created collaborative filtering and content-based model to predict user-item ratings for Amazon API and developed an understanding on deep learning models and optimization techniques by creating models to predict handwritten digits from MNIST database

### CPSC 317 - Internet Computing

Explored the Internet protocol stack and the responsibilities of each layer while examining a wide range of topics including data loss, reliability, performance and secure networks through the creation of a File Transfer Protocol Program in C.

## Technical Projects

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### Buses R' Us

*Java*

- Developed a mobile application to allow users to retrieve arrival times from bus stops as well as determining each bus route
- Constructed software architecture to model bus routes, arrivals and bus stops from TransLink's open API using proper OOD techniques
- Formulated algorithms using regular expressions in Java to parse through data in JSON files from TransLink's API for proper handling of bus data

### Discord Bot

*JavaScript*

- Utilized the existing Discord library to implement a client application to download all posted images in an online messaging platform similar to Slack
- Constructed chat commands using JavaScript asynchronous function features for the application to perform mundane daily tasks for users

### Amazon User Recommender System

*Python (scikit-learn, numpy)*

- Applied Collaborative based and content based filtering to predict user ratings from Amazon API to recommend items to the user above a certain threshold rating
- Developed knowledge in numpy library by manipulating and implementing algorithms using matrices and linear algebra on the given data

## Other Work and Volunteer Experience

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### Ugg Canada - Key Holder

Richmond, BC

October 2016 - March 2019

- Exceeded 20% of daily sales goals for the first four months by readily assisting customers through proper advertisement of product knowledge
- Ensured all products were featured in display by creative design techniques to further attract customers of various age groups and cultural backgrounds
- Compiled an inventory on Excel of all the items in the store using standardized and organized methods for better accessibility to employees

### St. John Ambulance Cadets

September 2007 - Present

*Youth Leader and Instructor*

- Responsible for leading and coaching first aid teams weekly to win the annual St. John Ambulance first aid competition across the lower mainland
- Coordinated local CPR-a-thon to raise awareness for heart disease to the general public in the lower mainland
- Participated in large scale events as a first responder and performed first aid services to help save people's lives