

## SUMMARY

Seeking software development internship for summer 2018

## CONTACT

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## EDUCATION

Simon Fraser University  
B.Sc Computer Science 2018  
GPA 3.45 / 4.33  
Burnaby, BC  
Expected Graduation Dec. 2018

Queen's University  
BA Economics 2012  
Kingston, ON

## SKILLS

**LANGUAGES:** C++, C#, Python, Typescript

**OS:** WIndow, Mac, Linux

**SOFTWARE / IDE:** Visual Studio, Sublime Text, Terminal, git / SVN

**FRAMEWORKS:** ASP.net Core, React JS

## EMPLOYMENT

**RBC Capital Markets** Toronto, Canada  
Technical Systems Analyst Co-op May 2017 to Aug 2017

- Implemented continuous integration, continuous development (CICD) using Jenkins to automated software deployment
- Prototyped an algorithm recommendation system for recommending articles to clients
- Created / modified SQL Server stored procedures for business analyst and QA
- Extract, Transform, Load (ETL) using SSIS tool to provide data for other business units

**Amec Foster Wheeler** Vancouver, Canada  
Application Developer May 2017 to Current

- Created Access database for automation through VBA, improved report accuracy and reduce time of making reports from 4 hrs. to 1 hr. Increased the team's productivity.

**Engineer Cost Controller** May 2013 to Sep 2016

- Monitored financial status of multiple engineering, procurement, and construction projects
- Prepared project status and financial reports for company's project managers

## PROJECTS

**BookBarn (Academic Project)** Sep 2017 to Dec 2017

- Collaborated with four students to create an online textbook marketplace using dotnet core, postgresSQL, Nginx, and vagrant
- Implemented checkout, shopping cart functions, sales visualization using chartJS
- Led the team in project proposal, meetings, and resolving conflicts

**PCA Music Genre Classifier (Academic Project)** Sep 2017 to Dec 2017

- Developed a Python Spark based music genre classifier with a team of three students, using principal component analysis (PCA) techniques
- Created Extract Transform Load pipeline to transform audio files into spectrogram images for analysis
- Created a program that used the spotipy wrapper to access Spotify Web API. The program successfully retrieved the preview urls of the 136,000 songs that were used to build the dataset

**Shopping Recommender** May 2017 to Aug 2017  
<http://www.andy-yao.com/recommender/>

- Developed a recommender system using implicit dataset, based on collaborative filtering techniques
- Built using pandas, numpy, scikit-learn
- Deployed using Python Flask, jQuery, and Apache

**Python client for StockFighter** Jan 2016 to Jun 2016  
<https://github.com/AndyCYao/StockFighter>

- Implemented a python client to connect with the game's REST API and websocket
- Created market makers bots, using data collected to automate buying / selling positions
- Generated charts using matplotlib and panda to visualize market data