

ANDY YAO

COMPUTER SCIENCE STUDENT

Employment

RBC Capital Markets

Technical Systems Analyst Co-op

Toronto, Canada

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

Application Developer

Vancouver, Canada

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

Shopping Recommender

<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

BookBarn (Academic Project)

- 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)

- 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

Python client for StockFighter

<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

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

Golang

Scheme

OS

Window

Mac

Linux

SOFTWARE / IDE

Visual Studio

Sublime Text

Terminal

git / SVN

FRAMEWORKS

ASP.net Core

React JS