

ANDY YAO

SOFTWARE ENGINEER

SUMMARY

Software engineer with 3+ years experienced in software development, databases, distributed systems, financial systems, CFA Level 1 candidate, Canadian Citizen

CONTACT

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🔗 AndyCYao

EDUCATION

7Gate Blockchain Bootcamp
2018

<https://7gate.academy/>

Five weeks intensive blockchain bootcamp, covering topics including cryptography, blockchain theories, smart contract designs, decentralized applications

Simon Fraser University
B.Sc Computer Science 2018

GPA 3.4 / 4.33

Burnaby BC, Canada

Queen's University
BA Economics 2012

Kingston ON, Canada

Canadian Securities Course
2015

Charter Financial Analyst
CFA Level I Candidate

Exam - June 2020

EMPLOYMENT

RBC Capital Markets
Technical System Analyst

Toronto, Canada
July 2019 to Current

GELP Structured Notes

- Created custom python solutions to map RBC structure notes to market vendor's format. Allowed six category of structure notes to be published to new vendor platforms.
- Environment Java EE, Python, AngularJS, Jenkins, SVN, red hat, FpML

DMG Blockchain
Software Engineer

Vancouver, Canada
Oct. 2018 to June 2019

- Lead developer for IoT (internet of things) software system to control and monitor bitcoin miners
- Created alerter systems for notifying onsite technician on out of service miners.
- Mentored junior developers / co-ops.
- Environment Git, AWS tools (EC2, ECS, S3), Docker, Python Flask, React, NodeJS, Kafka, Influx, Grafana, Postgres

RBC Capital Markets
Technical Systems Analyst Co-op

Toronto, Canada
May 2017 to Aug. 2017

- Implemented continuous integration, continuous deployment (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
- Environment C# ASP.net, SQL Server, SVN

Wood Group
Application Developer

Vancouver, Canada
May 2017 to Current

- Created Access database for automation through VBA, improved report accuracy saving estimated 200 man hours yearly.

Engineer Cost Controller

May 2013 to Sept. 2016

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

PROJECTS

Blockchain Aviation Challenge

Aug. 2018 to Sept. 2018

<https://github.com/AndyCYao/AeroSmartDemo>

- Created baggage tracking network proof of concept for Lufthansa SAP aviation challenge
- Technology used, Docker, Hyperledger Composer

Interplanetary File System (IPFS) Rest API

Aug. 2018 to Sept. 2018

<https://github.com/AndyCYao/IPFS-Rest-API>

- Developed API endpoints for file upload to IPFS nodes
- Created JSON Web Token (JWT) service for user authentication
- Technology used, Docker Containers, SQLite, Python Flask, Postman

PCA Music Genre Classifier

Sept. 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

SKILLS

LANGUAGES: C++, C#, Python, ES6 Javascript, Golang, Scheme, Solidity

OS: Mac / Linux

TOOLS / IDE: Visual Studio, git / SVN, Vagrant, Postman, Docker, Hyperledger, AWS S3, EC2, Postgres, tmux

FRAMEWORKS: ASP.net Core, Remix, Fabric, NodeJS, angularJS