

ANDY YAO

Employment

DMG Blockchain Software Engineer

Vancouver, Canada
Oct. 2018 to Current

- Built Kafka stream on AWS EC2 to collect miner data to customer portal
- Built docker telemetry service for monitoring EC2 instance health. Output to Grafana visualization.
- Created alerter systems for notifying onsite technician on disconnected miners.

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

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

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
- Technology used, Python Flask, jQuery, and Apache

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

Contact

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Summary

Software developer experienced in data engineering, databases, financial systems, smart contracts, hyperledger, ethereum. Canadian Citizen

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

Skills

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

OS: Mac / Linux

TOOLS / IDE: Visual Studio, Sublime Text, Terminal, git / SVN, Vagrant, Postman, Docker, Web3, Hyperledger composer, AWS

FRAMEWORKS: ASP.net Core, Flask, Remix, Fabric