

Tate Cheng

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+ Education

3A - University of Waterloo

Candidate For Bachelor of Computer Science 2020

+ Employment

DevOps Engineer co-op

Bank of Montreal Financial Group

Toronto, Ontario

Sept. 2018 to Dec. 2018

- Developed and managed **Ansible Playbook** to perform software configuration management
- Created and deployed an Issue tracker related to server vulnerability issue using **Flask** and **Jquery**
- Developed control center configuration automation using **SikuliX**, **Selenium**, **Python**, and **Ansible**

Data Analyst Student Intern

Royal Bank of Canada

Toronto, Ontario

May 2018 to Aug. 2018

- Developed an automated test suite to verify correctness and presence of analytics data from RBC mobile app using **Python Pandas**, **Android Studio**, **Google Analytics**, and **BigQuery**
- Utilized the analytics test automation suite to find analytics errors for the upcoming 2.0 release of the mobile app
- Assisted in repairing a fingerprint authentication issue on the mobile app

Machine Learning Research Assistant

Epiphany Asset Management (HK) Limited

Central, Hong Kong

May 2017 to July 2017

- Compared different machine learning algorithm models' performance and determined which model is more suitable for usage by building and developing deep-learning neural-networks such as **LSTM**, **gradient boosting regression**, and **hybrid ARIMA** using HSI's data within Python, utilizing **Pandas**, **NumPy**, **Keras** and **Sci-Kit Learn**
- Reconstructed daily stock market returns from monthly returns using compressed sensing and other machine learning algorithms
- Compared the correlation between different hyperparameters on a model by performing hyperparameter optimization using grid search

+ Skills

TECHNICAL: Python, C++, Java, C, OOP, Tensorflow, Keras, Flask, Selenium

DEVOPS: Agile, Jira, BitBucket, Bamboo, Artifactory, Confluence, Ansible, Git, Docker

SPOKEN LANGUAGES: English, Cantonese, Mandarin

+ Hackathons

RUHacks2018

- **Best Green(Money) Hack**
- Built Cocoa, a proactive budget financial app that notifies you prior to making purchases at checkout using **Python**, **Flask** and **Google's Api**

ConuHack 2018

- **First Place** API Challenger Winner, Hackathon Overall **Third Place** Winner
- Built Awesome sport, an automatically soccer game highlighter using **Python**, **Data Analytics** and **Machine Learning**

+ Projects

QuadRis

- a Tetris variant with unique rules using C++ and OOP

Party Web Service

- Used **React**, **Material UI**, **Redux**, and **Node.Js** and built a web-based party game engine