# **Tate Cheng**

### **■**tl2cheng@edu.uwaterloo.ca tate1010.github.io 447-402-6181 in tate-cheng tate1010

#### + Skills

**TECHNICAL:** Python, C++, Java, C, OOP, Tensorflow, Keras, Flask **DEVOPS:** Agile, Jira, BitBucket, Bamboo, Artifactory, Confluence, Ansible, Git, Docker

SPOKEN LANGUAGES: English, Cantonese, Mandarin

## + Employment

## **DevOps Engineer co-op Bank of Montreal Financial Group**

Toronto, Ontario Sept. 2018 to Current

- Develop and manage Ansible Playbook to perform software configuration management between Enterprise Wire Payment Developer and QA's environment
- Create a visual tracker to visualize fixed and ongoing vulnerability issue using data from **ELK stack**

#### 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 on different neural network models

#### + Education

**3A - University of Waterloo**Candidate For Bachelor of
Computer Science 2020

### + Hackathons

#### RUHacks2018

- Best Green(Money) Hack
- Built Cocoa, a proactive budget financial app that notifies you prior to making purchases at checkout
- Worked on the backend server with Python, Flask, and Google Places API

#### ConuHack 2018

- First Place API Challenger
   Winner and Hackathon Overall
   Third Place Winner
- Built Awesome sport, an automatically soccer game highlighter using Data Analytics and Machine Learning.
- Worked on extracting data using the Astuce media API in the backend server

## + Projects

#### **OuadRis**

- Built the retro game Tetris featuring custom-made rules and level using C++ and OOP
- Implemented a prefix trie and completed an interpreter that allows the user to shorten or repeat sequence of commands with ease

#### **Party Web Service**

- Used React, Material UI, Redux, and Node.Js and built a web-based party game engine
- Focused on developing user experience