

## > SKILLS//

<b>Programming</b>	Turing, Bash, Git, C, Racket, JavaScript, HTML, C++, R, Python, Java
<b>Spoken Languages</b>	English, Mandarin, Cantonese
<b>Data Analytics</b>	Pandas, Matplotlib, SVD, PCA, ICA, PyPlot
<b>Machine Learning</b>	XGBoost, Gradient Boosting, CNN, RNN, LSTM, PyTorch, Keras, TensorFlow

## > EXPERIENCE//

### Machine Learning Research Assistant May 2017 - July 2017 Epiphany Asset Management (HK) Limited Central, HongKong

- Used keras, tensorflow and sklearn. Built and develop deep-learning neural-network such as LSTM, Gradient boosting regression or hybrid ARIMA
- Implemented compressed sensing and machine learning algorithm to construct daily returns of HSI from monthly data, and studied the properties of the reconstructed time series with the original one
- Perform hyper-parameter optimization on neural network using grid search and compared their performances

### Computer Science Tutor September 2015 - September 2017 Waterloo, ON

- Worked with first year students enrolled in CS135 and CS136 at the University of Waterloo
- Helped prepare University of Waterloo's students for midterms, averaging a grade of 89% by creating sample questions .
- Conducted one-on-one lecture Tutoring and provide student with problem solving technique.

### Computer Technician September 2015 - January 2016 Mac&PC Repair Depot Markham ON

- Used analytical skills and knowledge of computers to determine issues and find appropriate, technical solutions
- Installed, upgrade and troubleshoot issues for software and hardware at user request
- Repaired liquid-damaged, broken screen, and bricked Macbook.

## > PROJECTS//

### QuadRis

- Used C++ and OOP. Built the retro game Tetris, featuring custom-made rules and level.
- Using a prefix trie. Completed an interpreter that allows the user to shorten or repeat sequence of command in ease.
- OOP allows easy access to add additional feature. Such as adding new pieces, command or level.

### Party Web Service June 2016 - August 2016

- Used React, Material UI, Redux, and Node.js and built a web-based party game engine
- Focused on developing user experience
- Unique feature designed to promote physical interaction between players
- <https://party-web-service.herokuapp.com>

## > HACKATHON//

### ConuHack Condordia University 2018 Hackathon 2018

- First Place API Challenger Winner and Hackathon Overall Third Place Winner
- Built awesome sport. An automatically soccer game highlighter using Data Analytic and Machine Learning.
- Worked on extracting data using the Astucemedia API as well as backend

### YHack Yale University Hackathon 2017 2017

- Built Emotionji, a conversation analysis that is able to show the emotion between the two people at the time of speech.
- Used Google cloud speech, IBM Watson, and Iconic Machine Learning API.
- Worked on the backend and built a complete public API that anyone can use. Hosted and deploys on Heroku

### MSFT Hack Microsoft Hackathon 2017 2017

- Built FoodMe using Microsoft Azure Machine Learning
- Calculate food nutritional value by taking a picture of food

## > EDUCATION//

### 2B - University of Waterloo Candidate For Bachelor of Computer Science 2020

## > AWARDS//

January 2018 ConuHacks  
Overall Third Place, ConUHacks

January 2018 Astucemedia  
First Place, Astucemedia: Data Platform  
API Challenge at ConuHacks

August 2016  
University of Waterloo President's  
Scholarship

April 2016  
University of Waterloo Faculty of Math  
Euclid Contest Scholarship

October 2015  
Canadian Senior Mathematics Contest  
Distinction (top 25%)