



education

honorary bsc | computer science and economics

university of toronto | 2016-2020

- cs gpa: 3.28
- honorary bachelors of science
- passion for web dev and AI

coursework

computation

introduction to neural networks
machine learning and data mining
algorithm design and analysis
software design and engineering
programming on the web
systems programming
computer organisation
data structures and analysis
numerical methods

stat/math

calculus of several variables
linear algebra I
probability and statistics I
introduction to mathematical proofs
calculus and linear algebra for commerce

economics

quantitative methods in economics
macroeconomic theory and policy
money, banking & financial markets
microeconomic theory

skills

languages and technologies

experienced

python • java • html/css • javascript • numpy

proficient

c • SQL and NoSQL (neo4j) • php • \LaTeX

general

os

linux (remote via ssh & sftp) • macOS • windows

ides

eclipse • vim • idle • jupyter notebook

other

- full-stack server (web frontend, flask/nodejs)
- agile development with SCRUM
- implementing machine learning technologies in vanilla numpy or pytorch
- version control via git console
- nodejs express routing, websockets and sqlite
- php full stack servers with logins and sessions

experience

university of toronto | teaching assistant

winter 2019

- paid position at the university
- hosted mandatory weekly 2 hour tutorials for the first year computer science course
- taught in python
- create solutions manuals and mark midterms/final exams
- host office hours and invigilate tests

project include | teaching assistant

summer 2018

- volunteering student initiative amongst team of 16
- helped coordinate and carry out a coding bootcamp for at-risk secondary students across mississauga
- teaching basic python at different libraries and schools for 4 weeks
- preliminary marketing and organisation

university of toronto | special projects

early 2019-present

- volunteering project of just myself (self initiative)
- creating a indifference curve analysis (microeconomics) graphing software
- full stack with web frontend, python flask backend
- self-learned web (I have since taken a webdev university course) and sympy library for this project
- embedded on economics student page for all University of Toronto Mississauga economics students.
- permanent url: <https://mcsapps.utm.utoronto.ca/micrographer>

scotiabank | 2020 big data & ai case competition

winter 2020

- first place winner (\$3000 prize)
- tasked with detecting money laundering in real bank data - unsupervised classification
- used Microsoft Azure cloud computing to perform heavy tasks using ssh and sftp.
- parameterised using neo4j nosql database and python driver
- used multivariate normal from scipy to detect outliers

independent | mini apps

present

- small independent projects on website
- further java and python experiments on github repository
- links are by the icons at the top of page