Michael Yin

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Education

University of Toronto
Sep 2015 – May 2020

- B.A.Sc. in Engineering Science, Major in Mathematics, Statistics, and Financial Engineering, Cumulative GPA: 3.93/4.00
- Sample Coursework: Data Structures & Algorithms, Probability & Statistics, Regression Analysis, Stochastic Processes, Mathematical Programming, Introductory Machine Learning

Experience

Stanza.co
May 2018 - Present
San Francisco, California

Backend Engineering Intern

- Prototyped and implemented a backend platform to centralize ad revenue payments, display revenue splits, and pay out ad indices on a regulated basis. (Python, PostgreSQL, JS)
- Developed database migration scripts to allow for Neo4J integration. (Neo4J, JS)
- Created new web scrapers, revamped existing scrapers, and developed a bot that would send a Slack notification upon scraper failure. (JS, MongoDB)

Dynamic Graphics Project
May 2017 – Aug 2017
Toronto, Ontario

Software Engineer

- Calibrated and debugged camera/projector setups using the OpenCV library. (C++)
- Used image projection and analysis algorithms to differentiate between direct and indirect light sources on a scene.
- Developed structured light imaging functions to calculate object depth in a scene.

MyAbilities Inc.
May 2016 – Aug 2016
Toronto, Ontario

Product Development Engineer

- Worked in a team in the research and development of a wearable biomedical device for performance testing.
- Collected and analyzed sensor serial data using machine learning and data visualization algorithms. (Python, C)
- Developed a web application to share the locally collected data online. (JS)

Projects

AI Pong
Python

- Script that acts as the logical intelligence of a computer player in Pong.
- Features instantaneous reaction to player motion and random backspin generation.

Tuberculosis Analysis
Python

- Investigation, analysis, and visualization of trends between tuberculosis incidence and human development factors demonstrated and presented using animated plots.

Ad Data Visualization
C#

- Augmented reality visualization of provided advertising data (C#)
- Predictive model for advertising hits generated using a neural network.

NBA/NCAA Analysis
R

- Analysis of trends for an average professional basketball player's shooting statistics in college (NCAA) and the professional league (NBA).

Awards and Accomplishments

- 6x University of Toronto Dean's List
- NSERC Computer Science Undergraduate Student Research Award (USRA) recipient
- MLH Anti-Harassment Hack Award, 3rd Place HackWithIX

Skills

Languages: Python, R, HTML, CSS, Javascript, MATLAB, C, C#, SQL, Cypher

Other: Git, Github, Agile Development, OOP, pandas, numpy, scipy, matplotlib, OpenCV, Neo4J, Unity