Michael Yin

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Education

University of Toronto
Sep 2015 – May 2020

- Bachelor of Applied Science in Engineering Science
- Major in Mathematics, Statistics, and Financial Engineering
- Cumulative GPA: 3.98/4.00
- Relevant Courses: Data Structures and Algorithms, Probability and Statistics, Regression Analysis, Stochastic Processes, Mathematical Programming
- Extracurricular Courses: Introductory Data Science, Machine Learning, Data Visualization

Experience

Dynamic Graphics Project
May 2017 – Aug 2017
Toronto, Ontario

Software Engineer

- Calibrated and debugged camera/projector setups using the OpenCV library in 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.

IEEE UofT Branch
Sept 2016 – May 2017
Toronto, Ontario

Hardware Technologist

- Tested, built, and provided feedback on various electrical circuits.
- Acted as a mentor during electronics workshops and events.

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 using an Arduino.
- Collected and analyzed sensor serial data using machine learning and data visualization algorithms in Python.
- Developed a web application to share the locally collected data online using node.js.

Projects

AI Pong
Python

- Script that acts as the logical intelligence of a computer player in Pong.
- 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 developed using 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 major league (NBA).

Awards and Accomplishments

- 5x 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 (node.js), MATLAB, C, C++, C#, SQL

Libraries: pandas, numpy, scipy, scikit-learn, matplotlib, OpenCV

Tools: Git, Github, BitBucket, Microsoft Office