Michael Yin

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Education

University of Toronto
Sep 2015 – May 2020

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

Experience

Shopify
May 2019 – Aug 2019
Toronto, Ontario

Backend Engineering Intern *(International R&D)*

- Wrote backend code to orchestrate the workflow in creating modelled data given an ingested input for a major new feature. (Rails)
- Created an integration pipeline providing flexibility for Shopify partners to incorporate their own applications. (React, Rails, GraphQL)
- Developed front-end UI widgets to improve merchant experience and collect data on merchant behavior. (React, Typescript, GraphQL)

Stanza
May 2018 – Apr 2019
San Francisco, California

Software Engineering Intern *(Data)*

- Implemented a backend API platform to centralize ad revenue payments and show revenue statistics. (React, Node.js, PostgreSQL)
- Developed automated jobs to query for and display engagement data for both internal use and external clients. (Python, Go, PostgreSQL, MongoDB)
- Created an event collection and transformation pipeline using AWS tools and Airflow. (Go, Python)

Dynamic Graphics Project
May 2017 – Aug 2017
Toronto, Ontario

Computer Vision Research Intern

- 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.

Projects

Restaurant Recommender
Javascript

- Amazon Alexa skill that provides restaurant recommendations based on user-spoken input of relevant criteria such as cuisine type, price value, and location.

Online Marketplace
Javascript

- Backend mockup of an online marketplace API that allows users to sign up and log in securely, view items in the market, add them to a cart, and purchase the cart.

NBA/NCAA Analysis
R

- Regression analysis of professional basketball players' 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, Javascript, Rails, Golang, R, MATLAB, C

Other: Git, Github, Agile Development, numpy, OpenCV, Neo4J, AWS, graphQL, SQL, mongoDB