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## **Education**

#### University of Toronto

Toronto, Canada

B.A.Sc. in Engineering Science (Math, Stats, and Finance) cGPA: 3.71

Sept. 2015 - May 2019 (Exp.)

• Select Coursework: Data Structures/Algorithms, Foundations of Computing, Databases, Web Development, Introduction to Machine Learning, Real Analysis, Regression, Actuarial Science, Financial Engineering, Financial Optimization Models, and Mathematical Programming.

# **Work Experience**

Google (YouTube)

Mountain View, CA

SOFTWARE ENGINEER (UPCOMING)

Expected Start: July 2019

Will be joining YouTube (Part of Google) as a new graduate Software Engineer (L3). Will be mostly working on Front-End and Full Stack web
development.

Intuit Inc. (QuickBooks)

Mountain View, CA

SOFTWARE ENGINEERING INTERN

May 2018 - Aug. 2018

- Created a set of UI widgets(React/Redux, SASS, GraphQL) to deliver payment information insights as part of a new Payments UI in QuickBooks.
- Improved User Experience for over 50000 small businesses as part of a V1 release for a new Payments platform within the QuickBooks Ecosystem.
- Contributed 2 major features to the open source QuickBooks business API as part of an intern hackathon.

## Technical Portfolio

#### **Money Rocket**

Web Development, Finance

FULL STACK ROBO-ADVISOR FOR ETF PORTFOLIO GENERATION

Sept. 2018 - Dec. 2018

- Created a Full-Stack Robo-Advisor to give financial advice for ETF portfolios. Used Bootstrap with jQuery on the Front-End and SQLite/Flask for the Back-End, with Python/Quandl for the business logic/data fetching.
- Generated market parameters using the three factor Fama-French model, and optimised user portfolios by using an adapted version of Mean Variance Optimization. Black-litterman was used to incorporate user views into the model.

Sonic The Robot Robotics

FULLY AUTONOMOUS RECYCLING ROBOT

Jan. 2017 - Jun. 2017

- Worked in a 3-man Design team to conceptualize, prototype, and construct a fully autonomous bottle-sorting robot that could sort 10 bottles in 30 seconds. Documented the project with Engineering project methodology (i.e. Gantt charts, Stakeholder analysis).
- Developed C code to interface with a PIC micro controller to control the electrical components of the robot, as well as the circuits for sensors and actuators. Created an Heuristic algorithm with 2 color sensors to detect a recycled bottle type.

## **Honors & Awards**

### **PROGRAMMING**

2018	Finalist, PUSH Code Competition	Toronto, Canada
2018	2nd, Hack Western 4	London, Canada
2018	<b>3rd</b> , Google Games	Waterloo, Canada
2017	<b>3rd</b> , Microsoft Coding Challenge	Toronto, Canada

#### **MATHEMATICS**

2015	Qualified, Canadian Mathematical Olympiad	Canadian Finalist
2015	Qualified, Asian Pacific Mathematical Olympiad	Global Finalist
2014	<b>Qualified.</b> United States Junior Mathematical Olympiad	US Finalist

## Technical Skills

#### Skills (In order of Proficiency)

LANGUAGES LISTED FIRST, THEN MISCELLANEOUS SKILLS/FRAMEWORKS

• Python, JavaScript (React/Redux, ¡Query, NodeJS), HTML/CSS, C++/C, MATLAB, SQL, MongoDB, Express, Git.