

# IAN RAMZY


American & Canadian Citizen

 [ianramzy.com](https://ianramzy.com)

 [ianramzy](https://github.com/ianramzy)

 [ianramzy](https://www.linkedin.com/in/ianramzy)


 [ianramzy@gmail.com](mailto:ianramzy@gmail.com)

 (+1) 613-876-7631

## EXPERIENCE

### Software Engineering Intern


**Deloitte Innovation Lab**

 May 2019 – Aug 2019

- Created new product leveraging **machine learning and NLP** to extract market data from news articles saving **\$40,000** a year in analyst costs
- Built **RESTful** applications using **Python and Flask** from scratch
- Created **custom search engine** to match names using fuzzy logic and string preprocessing improving match results from **40% to over 90%**
- Spearheaded development of brand new **React** user interfaces

### Project Manager Intern


**Renook Inc.**

 Jun 2018 – Jul 2018

- **Created brand new ticket system**, time-boxing all objectives for entire team, resulting in project **completion 2 weeks early**
- **Reduced project costs by 30%** through negotiations and optimization
- Prototyped and presented designs to clients using AutoSketch

### Software Engineering Team Member

**Waterloop - Canada's Hyperloop Team**

 Jan 2019 – Apr 2019

- Created high performant server using **Go** responsible for processing and broadcasting all pod data via **encrypted websockets**
- Developed **MongoDB** drivers and logging systems eliminating data loss and need for network callbacks **reducing traffic by 90%**
- Refined backend infrastructure enabling **autonomous driving** of pod

## PROJECTS

### Stock News Analyzer – 1st at CAM Hacks

 [See the Project Here!](#) **Python, Flask, BS4, Azure, HTML, CSS**

- Web app that calculates **sentiment** of news articles about a stock
- **Scrapes articles** off NASDAQ.com and runs them through a custom machine learning model, achieving **92% accuracy**
- Developed a scalable backend in **Python and Flask** leveraging **multi-threading** to handle multiple requests at once

### Optimo – 1st at StarterHacks


 [See the Project Here!](#) **JavaScript, Web Speech, HTML, CSS**

- Web app to help users **calculate their glasses prescription** (i.e. 20/20 or 20/80) by taking an online exam
- Built **custom algorithm** based on optometry research with **96% recall**
- Implemented **voice recognition** with JavaScript WebSpeech API

## EDUCATION

### Bachelors of Honors Computer Science CO-OP

**University of Waterloo**

 2018 – 2022

- **Major GPA : 3.7/4.0**
- Michael Egan Award in Computer Science
- President's Scholarship of Distinction
- Major Entrance Scholarship

## SKILLS

Languages:

Python

JavaScript

Java

C/C++

GO

HTML

CSS

Technologies:

Flask

React

Git

MongoDB

Bootstrap

jQuery

JavaFX

## ACHIEVEMENTS

- 1st, Starter Hacks (500+ Teams)
- 1st, CAM Hacks (50+ Teams)
- Three-Time Computer Science Award, (700+ Students)
- 7th Internationally, DECA Finance Competition (4,000+ Teams)
- Canadian National Kayaking Record Holder
- Four-time Canadian National Speed Skating Competitor
- Provincial Swimming Competitor

## INTERESTS

- Public Speaking
- UI/UX Design
- Quantitative Trading
- Machine Learning
- Rock Climbing