

# IAN RAMZY

American & Canadian Citizen

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## 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 **15+ production endpoints** to serve machine learning data
- Spearheaded design and development of brand new **React** user interface, incorporating **responsive material design**
- Built **custom search engine** to match names using fuzzy logic and string preprocessing improving match results from **40% to over 90%**
- Chosen to **present** prototype to **100+ executives** at keynote

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 scaleable 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 BASH

Technologies:

Flask React Git MongoDB  
Bootstrap jQuery JavaFX Unix

## 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