

IanRamzy

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EXPERIENCE

Deloitte | Software Engineering Intern Apr – Jul 2019

- Engineered financial entity extractors using custom **machine learning NLP** models, directly saving **\$40,000** a year in analyst costs
- Created **custom search engine** to match names using fuzzy logic and string preprocessing improving match results from **40% to over 90%**
- Built **RESTful** applications using **Python and Flask** from scratch
- Conducted story-mapping sessions to develop user interfaces in **React**

Waterloop | Software Engineering Team Member Jan – 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

Renook | Project Manager Intern Jul – Aug 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 optimizations
- Prototyped and **presented designs** to clients using AutoSketch

PROJECTS

Stock News Analysis

[See the project here!](#)

First place at CAM Hacks
Python, Flask, BS4, Azure, HTML, CSS

- Web app that calculates **sentiment** of news articles surrounding 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

[See the project here!](#)

First place at Starter Hacks
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

Article Summary Using Deep Learning

[See the project here!](#)

RU Hacks
Python, Flask, Textacy, Spacy, BS4, HTML, CSS

- Web app that takes any URL and **summarizes the webpage** generating facts, **reduces text size by 90%** on average
- Scrapes webpage's** text using BS4 and performs **named entity recognition** using **Spacy** to determine subject of article

EDUCATION

University of Waterloo

Bachelor of Honors Computer Science CO-OP

2018 - 2022

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

SKILLS

Languages

Python // Java // C // GO
JavaScript // HTML // CSS

Technologies

Flask // React // AWS // Git
MongoDB // DynamoDB
Bootstrap // jQuery // JavaFX

ACHIEVEMENTS

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

INTERESTS

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