

EXPERIENCE

Accenture | Software Engineer Intern

Jan 2020 – Apr 2020

- Engineered **Blockchain** health platform from scratch, leading research and development of **Hyperledger Indy** for **decentralized identity**
- **Reduced application latency by 30%** by architecting new **concurrent backend** to serve application data using **Python & JavaScript**
- Created **12+ RESTful API's** responsible for routing **95% of all application traffic**
- **Redesigned 5 application pages**, building **15+ reusable React** components
- Built **user authentication** system leveraging **OATH** and **WebSockets** for security
- **Deployed** web application to **AWS cloud** with auto-scaling
- **Migrated Blockchain** network to **serverless** architecture with **AWS Lambda**

Deloitte | Software Engineer Intern

May 2019 – Aug 2019

- **Saved \$120,000** in data analysis costs by creating new platform tool leveraging **machine learning and NLP** to extract market data from news articles
- Built **fullstack** dashboard application using **Python and Flask** from scratch
- Created **15+ production endpoints** to serve machine learning data
- Led development of new **React** User Interface, incorporating **responsive design**
- Improved application search accuracy from **37% to over 95%** by building **custom search algorithm** using **deep learning** and fuzzy logic
- Chosen to **present** new product platform to **100+ executives** at keynote

Waterloop | Software Engineer Lead

Jan 2019 – Apr 2019

- **Led backend development** of low-latency vehicle systems and infrastructure
- Created high performance server using **Go** to broadcast vehicle sensor data via **encrypted WebSockets** including vehicle velocity and temperature
- **Reduced network traffic by 90%** by eliminating network callbacks from data loss through creation of **MongoDB database caching system**
- Enabled **autonomous driving** of vehicle by refining backend controls logic

Portfol.io | Project Manager Intern

Jun 2018 – Aug 2018

- Managed and designed products for **largest client project**, leading 12 week development of organizational tools
- Led project to be **completed 2 weeks early** by creating **brand new order system**, time-boxing all engagements for team
- Prototyped and presented designs to clients using **Figma & PhotoShop**

PROJECTS

Stock News Sentiment Analyzer | 🐙 1st CAM Hacks

- **Scrapes articles** off NASDAQ.com and uses a custom **machine learning** model to predict article sentiment, achieving **92% accuracy**
- Developed scalable backend in **Python and Flask** leveraging **multi-threading** for concurrent requests

Online Vision Doctor | 🐙 1st Starter Hacks

- Built **custom vision algorithm** based on optometry research with **96% recall**
- Built entire **hands-free user interface** using **voice recognition** powered by **JavaScript WebSpeech**

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EDUCATION

B.CS Honors Computer Science

University of Waterloo

📅 Expected Grad. 2022

- **GPA : 3.7/4.0**
- President's Scholarship for **97.1% entrance average**
- Michael Egan Computer Science Award, (1/500+ students)

SKILLS

Python JavaScript Java C++

C HTML CSS BASH

Flask React AWS Git

Node Express Bootstrap

Linux Blockchain Docker

ACHIEVEMENTS

- 1st, Starter Hacks (500+ Teams)
- 1st, CAM Hacks (50+ Teams)
- 3x Computer Science Subject Award, Kingston Collegiate (700+ Students)
- 1,000 GitHub contributions last year
- 7th Globally, DECA Quantitative Finance Competition (4,000+ Teams)
- Co-organized TEDx event (300+ attendees)
- Canadian Kayaking Record Holder
- Four-time Canadian National Speed Skating Competitor
- Managed over \$10,000 with an 33% alpha in 2019