

# ALBERT ONG

## Software Engineer

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## EXPERIENCE

### Front-End Developer Intern

#### Purolator Inc.

Sept 2020 – Dec 2020

- Engineered the Purolator.com website, reduced application latency and developed landing pages within the Drupal CMS
- Created REST APIs responsible for routing 80% of all application traffic and assisted team with optimization within Google Adwords
- Data tracking for attribution modeling using Google Analytics

### Software Engineer Intern (Machine Learning)

#### Proof Zero Inc.

May 2020 – Aug 2020

- Implemented propensity models to make scalable and accurate predictions for financial services using Pandas
- Performed statistical modelling for PZI probabilistic regression of orthogonal factors (PROOF) using Python, R and SAS
- Built the Client SDK for PZI applications using Python from scratch

### Full-Stack Developer Intern

#### Veriday Inc.

Jan 2020 – Apr 2020

- Built high-performing full-stack applications using the MERN stack
- Contributed in all phases of the development cycle to produce well-written, quality, testable and efficient code

## PROJECTS

### MapSpeaks (In progress)

- Location-based application which allows users to leave pinned messages on a cross-functional map using the MERN stack

### DLNN Algo

- An Image Recognition System that recognizes animals using a deep neural network (TensorFlow, Keras, Adam)
- Features an L-layer deep neural network making use of He Initialization, RMSprop and an N-dimensional gradient check

### MovieConnect

- Full-Stack application that provides social media highlights for yet to be released movies using React.js and Flask API
- Gathered sentiment analysis data using Vader Sentiment and pulled popular tweets from the Twitter API

### RAIInet

- Implemented a role-playing game played between 2 players who take on the role of computer hackers in C++ (Observer & MVC Patterns)

## EDUCATION

### University of Waterloo

#### Bachelor of Mathematics

Sept 2018 – Aug 2023

- Honours Statistics and Combinatorics & Optimization (Double Major)
- Undergraduate TA for second-year linear algebra (MATH235)
- Term Dean's Honour List (87.5%)
- Data Structures & Algorithms (A+)

## SKILLS

Python C/C++ Javascript R  
HTML CSS Git Bash

React MongoDB Express Node  
AWS Bootstrap Rails GraphQL  
SQL PHP

TensorFlow Keras Pandas SAS  
Scikit-Learn Apache Spark Kafka

## ACHIEVEMENTS

- Secured 2<sup>nd</sup> place at **PCHacks 2019** for developing an online medical chat-hub called Red Scouts  
github.com/theberttt/Red-Scouts
- Awarded 7<sup>th</sup> place for the **Fidelity Investments Case Competition** for presenting my case solution to a panel of judges
- Achieved 3<sup>rd</sup> place for **UWaterloo's Soccer Intramurals**
- Actively involved in residence-based organization, **RezCouncil**, to promote student interaction

## CERTIFICATIONS

- Deep Learning Specialization - Issued by DeepLearning.ai
- Python for Data Science and Machine Learning Bootcamp - Issued by Udemy