ALBERT ONG

Software Engineer

@ a2ong@uwaterloo.ca   ☎ 289-788-7080   % theberttt.github.io   in linkedin.com/in/albertong807   ⌨ github.com/theberttt

EXPERIENCE

Software Engineer Intern
Capital One

📅 May 2021 – Aug 2021

- Integrated new in-house content management system (CMS) onto the WWW application using a Gatsby JS source plugin in production
- Plugin automatically sources and syncs data from the CMS into the application using GraphQL during build
- Fully automated real-time content updates for authors and engineers

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 Analytics

Software Engineer Intern (Machine Learning)
Proof Zero Inc.

📅 May 2020 – June 2020

- Implemented propensity models to deliver highly scalable and accurate predictions for financial services using Pandas
- Performed statistical modelling for PZI probabilistic regression of orthogonal factors (PROOF) using Python, R and Pandas

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 lifecycle, resulting in increased usability and reduced runtime performance by 70%

PROJECTS

MovieConnect

- Full-Stack application that provides social media highlights for 200+ yet to be released movies using React.js and Flask API
- Gathered sentiment analysis data using vaderSentiment and pulled the top 2 popular tweets from the Twitter API for movie evaluation

DLNN Algo

- An Image Recognition Software that recognizes animals using a deep neural network with 95% accuracy (TensorFlow, Keras, Adam)
- Incorporated an L-layer deep neural network which utilizes He Initialization, RMSprop and an N-dimensional gradient check

MapSpeaks

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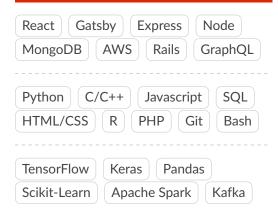
EDUCATION

University of Waterloo
Bachelor of Mathematics

📅 Sept 2018 – Aug 2023

- Honours Statistics and Joint Combinatorics & Optimization
- Undergraduate TA for second-year linear algebra (MATH235)
- Term Dean's Honour List
- Data Structures & Algorithms

SKILLS

`React` `Gatsby` `Express` `Node` `MongoDB` `AWS` `Rails` `GraphQL`

`Python` `C/C++` `Javascript` `SQL` `HTML/CSS` `R` `PHP` `Git` `Bash`

`TensorFlow` `Keras` `Pandas` `Scikit-Learn` `Apache Spark` `Kafka`

ACHIEVEMENTS

- Secured 2nd place for developing an online medical chat-hub called Red Scouts at **PCHacks 2019** (100+ Teams)
  ⌨ Red-Scouts
- Awarded 7th place at the **Fidelity Investments Case Competition** for presenting my team's case solution to a panel of judges
- Achieved 3rd place for **UWaterloo's Soccer Intramurals**
- Spearheaded residence-based organization (20+ members), **RezCouncil**, to organize networking events and promote student interaction

CERTIFICATIONS

- Designing RESTful APIs - LinkedIn
- Deep Learning Specialization - Deeplearning.ai
- Python for Data Science and Machine Learning Bootcamp - Udemy