

Alex Dong

📧 dong-alex | 🌐 dongalex

Work Experience

Intuit

January 2019 - December 2019

SOFTWARE DEVELOPER CO-OP

Edmonton, Alberta

- Led front-end development for a plugin using **React hooks** and **TypeScript** in QuickBooks Online. This new feature will be used by over 5 million users and was showcased in the global QuickBooks Connect conference of 4000 accountants and small business owners
- Implemented and released an analytics library utilizing Segment tracking that is used by marketing and engineering teams to better design business solutions via real-time behavioral data
- Reduced test runtime for a legacy plugin by over 60% (9 mins to 3 mins) as well as memory usage by 50% (3GB to 1.5GB) by limiting unnecessary initializations of heavy MVC files via a singleton. This reduced development time for over 5 teams and build times following changes
- Regenerated full automation regression suites for multiple plugins using **Selenium** and **Webdriver.io**

University of Alberta

Jan 2020 - Apr 2020

UNDERGRADUATE TEACHING ASSISTANT

Edmonton, Alberta

- Led weekly lab sessions for 30+ students, utilizing various learning techniques for fundamentals in data structures. Overall evaluations and test performances shown to be excellent in the course
- Exceeded expectations as an Undergraduate TA by aiding in creating an exam bank and marking exams.
- Coordinated with other TAs and Professors in providing alternative lab sessions online due to COVID-19, transitioning over a weekend after announcement of quarantine.

Alberta Health Services

September 2017 - April 2018

SYSTEMS ANALYST CO-OP

Edmonton, Alberta

- Redesigned a report generator used for audit on over 7000 contracts with Alberta Health Services within an internal application utilized by over 200 employees. This reduced the environmental impact of the audit by 22% via reduced paper load
- Introduced SQL data guards into the monthly data migration stream of contract data to the data warehouse. The scripts enforced data integrity during the migration, preventing time consuming rollbacks

City of Edmonton

November 2014 - Current

LIFEGUARD

Edmonton, Alberta

- Mentored new lifeguards on best practices and conflict resolutions. The insight and assistance propelled my team members to have increased confidence in their actions, resulting in quick responsiveness on issues within the facility
- Improved customer experiences through personal accommodations and defused conflicts quickly to minimize customer discomfort. This led customers into continuing to use our facility and increased positive community exposure via word of mouth
- Acted in leadership roles during emergencies, prioritizing customer safety and minimizing property damage

Education

University of Alberta

April 2020

BSC IN COMPUTING SCIENCE, MATHEMATICS MINOR

Edmonton, Alberta

Computing GPA: 3.5

Projects

pyBraille

January 2018

HACKED 2018 - GITHUB.COM/DONG-ALEX/BRILLEAPP

Edmonton, Alberta

- Image to braille application with **Python** using the open-source library Liblouis and Microsoft's Computer Vision API
- 24-hour hackathon project in a team of 3, winning 2nd place and showcased in Startup Edmonton's projects presentation

Inventory Rental Web App

September 2018 - December 2018

UNIVERSITY OF ALBERTA OUTDOORS CLUB - CMPUT-401 PROJECT

Edmonton, Alberta

- Created an online reservation system using **React** that was planned for usage by 900 members in the club
- Paperless administration for over 700 rentals and transactions using **Django** connected to a **PostgreSQL** server. Potentially saving hundreds of trees and hours spent previously managing via Google Sheets

Skills

Programming JavaScript/HTML/CSS · Python · TypeScript

Frameworks React.js · Node.js · Jest · Selenium · Webdriver.io