

Johnny Liao

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Education

University of British Columbia

Sep 2018 — Jun 2022

- Bachelor of Science, Computer Science and Statistics Combined Major

Work Experience

Software Developer Intern at Excelar Technologies

Aug 2020 — Present

- Worked on Chatnells, an AI powered chat platform for workflow messaging built with Reactjs and Typescript.
- Developed and maintained comprehensive end to end regression testing scripts with Jest and Selenium. Improved test coverage by 70% and cut down manual testing time by 60%.
- Wrote end to end testing scripts for Chatnells mobile app which improved mobile test coverage by 40%.
- Optimized legacy code following object-oriented design methods to improve reusability and readability.
- Designed a filter algorithm to sort over 1000 meetings based on relevant time slots for a booking system.
- Designed and developed add to calendar feature connected to the Zoom API that automatically created an ics file for calendars, improving user experience with our booking system.
- Implemented organization system for automated bot messages with higher order components to improve user customizability.

Hackathons

ALIGN — React, MongoDB, Google Maps API, Twilio

May 2020

- Web-app that allows grocery stores to better control the number of people within the store, theoretically reducing the number of people waiting in line by 60% with a virtual queuing system.
- Developed a mapping tool that allows users to easily search up over 1000 grocery stores they want to virtually queue up to with Google maps API.
- Using MongoDB, stored information on all people who queued up and ran a script every minute with Cron ensuring users are notified as soon as possible through text using Twilio.

TALKATIVE — React Native, Javascript

Nov 2019

- Talkative is a natural language processing app built for non-English speakers to practice proper pronunciation, serving as a 24-hour teaching assistant that fits in your pocket.
- Analyzed 5 second audio clips in real time, assessing pronunciation and fluency in 15 seconds.
- 85% accurate model.

CLASSIFY — Javascript

Jan 2020

- Utilizes a machine-learning model that accurately categorizes a product with just a picture and sorts the product based on key words onto Best Buy's website
- Trained a model to analyze popular products on Best Buy by breaking down images and assigning key words to it.

Projects

Goodlife Fitness Auto-booking Tool — React, Javascript, MongoDB

Oct 2020 — Nov 2020

- Designed a booking system that automatically books gym slots for users, eliminating the need to use Goodlife Fitness's system and streamlining the booking system for up to 1000 users at a time.
- Built a front-end ui with React connected to MongoDB with a Nodejs backend server.
- Developed a CRUD API that made calls to Goodlife Fitness's system to automate bookings, 99% faster than manual booking. Capable of booking in less than a 1-minute.

Amazon Clone — React, Javascript, Firebase

Oct 2020

- Recreated Amazon with Reactjs for the front-end ui with Firebase running the backend for authentication.
- Implemented useContext api to manage state and dynamically keep track of the number of items added to cart.

Search Algorithm Visualizer — React, Javascript

June — Jul 2020

- Created a search algorithm visualizer for Breadth First Search, Depth First Search and A-star Search.

Technical Skills

- Java, Python, Javascript, C, C++, HTML, CSS, R, JavaFX, Reactjs, Jest, REST, Postman, Selenium, Firebase, Express, Nodejs, Algorithms, Object-oriented Design, Digital Ocean, Heroku, MongoDB, SQL Databases, Agile,