

# Wayne Zhu

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## Work Experience

### Full Stack Developer

Toronto, ON

PREFIX

April 2020 - Current

- Lead developer for a platform-agnostic Ionic React client app tracking patient symptoms. Contributions including implementing UI designs and animation, app logic and managing global state, and connecting to backend via RESTful API calls.
- Contributed to backend API written in Golang, authoring modules for survey handling, password management and email validation.
- Configured and maintained backend cloud hosting through Google Compute Engine, wrote a CI/CD pipeline through GitLab, configured hosting company website using Nginx.

### Software Engineer Intern

Mississauga, ON

POINTCLICKCARE

June 2019 - August 2019

- Developed a cross-platform proof of concept analytics dashboard app for iOS and Android using React Native, designed to summarize and visualize financial data for hospitals and long-term care facilities.
- Active particularly developing for iOS, front-end UI development, carrying data through RESTful API calls, building and deploying through Microsoft App Center, and testing using Jest.
- Followed an Agile workflow, gaining familiarity working with Git, Jira, Bitbucket, and Confluence.

## Extracurricular Activity

### Web Developer

Toronto, ON

NEUROTECH UOFT

January 2020 - April 2020

- Wrote a React-based documentation website for the Neurostack API, a cloud brain wave streaming framework.

### Co-President

Mississauga, ON

PROGRAMMING CLUB - LORNE PARK SECONDARY SCHOOL

September 2018 - June 2019

- Overlooked daily operations of club, including budget planning, fundraising, advertising, and organizing competitions.
- Participated in several hackathons, ended up winning a national award.

### National Winner

Mississauga, ON

PICOCTF / CANHACK 2018

September 2018

- Cybersecurity-oriented hackathon organized by Carnegie Mellon University, the largest of its kind.
- Gained exposure to a diverse selection of cybersecurity subfields including Web Exploitation, Cryptography, and Computer Forensics.
- Placed 1st in Canada, 28th in the world out of over 16 000 teams.

## Projects

### QVC

REMOTE VIDEO SYNCHRONIZER

- App that synchronizes video playback between remote clients.
- Written with a React frontend, Node.js backend
- Hosted on GCP; client communication handled by Socket.IO

### Talk to the Hand

REAL TIME SIGN LANGUAGE TRANSLATOR

- Video call app using ML to show live captions for sign language
- Frontend made with React, TensorFlow.js
- Peer-to-Peer client communication through WebRTC

## Education

### University of Toronto

Toronto, ON

B.S. IN COMPUTER SCIENCE

September 2019 - Current

Relevant Courses: CSC207 Software Design - CSC236 Introduction to the Theory of Computation - CSC209 Software Tools and System Programming - CSC258 Computer Organization - CSC263 Data Structures and Analysis

## Skills

**Frontend** React/React Native/Ionic React, Javascript/Typescript, HTML/CSS/SCSS, Python, C#, Java, .NET Framework, Unity  
**Backend** Node.js, Python, Golang, Google Cloud Platform, Heroku, MongoDB, TensorFlow.js, Git, Agile