

# Wayne Zhu

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## Skills

**Frontend** Javascript/Typescript, React/React Native/Ionic React, HTML/CSS/SCSS, Python, C, C#, Java, .NET Framework  
**Backend** Node.js, Python, Golang, Cloud Platforms, MongoDB, RESTful APIs, Docker, CI/CD, Shell Scripting, Git

## Work Experience

### Software Developer Intern

Toronto, ON

EQ WORKS

April 2021 - Present

- Created an automated workflow using Python, Docker, Kubernetes, and Apache Airflow to retrieve, process, and upload data segments to Google Cloud Storage upon receiving job requests from clients, resulting in an 80% reduction in processing time.
- Authored a bespoke backend using Node.js, AWS Lambda, AWS S3, and PostgreSQL, creating a system to queue and execute tasks requiring large streams of data, optimizing user experience by shifting computationally-expensive functions away from the client.
- Authored Python scripts and corresponding Github Actions workflows to automatically execute and validate Jupyter Notebook files.

### Full Stack Developer Intern

Toronto, ON

PREFIX

April 2020 - August 2020

- 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.

### 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 in developing on iOS, front-end UI development, carrying data through RESTful API calls, building and deploying through Microsoft App Center, and testing using Jest.

## 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.

### 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

### Private Cloud

SELF-HOSTED CLOUD STORAGE SOLUTION

- A Dropbox-style cloud storage app built from scratch
- Full stack project; React frontend, Node.js + MongoDB backend
- Driven by a full REST API, with auth supporting multiple users

### 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