

# 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 a 80% reduction in processing time.
- Expanded the company's internal Node.js-based authentication system with additional API endpoints and corresponding controllers, adding the option to generate and manage long-lasting JWT session tokens.
- 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
- Powered 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