

# Wayne Zhu

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## Skills

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

## Work Experience

### Meta

Menlo Park, CA

SOFTWARE ENGINEER INTERN

May 2022 - Present

- Created a new automated load test routine using Python to find a service's peak traffic throughput by raising it into a maximally stressed but healthy state, ultimately identifying and storing high-accuracy data on the service's ideal load and operating conditions.
- Wrote a new CLI to automatically onboard internal services to this new peak load testing, generating adhoc generic configurations for previously unregistered services, achieving out of the box compatibility with all targeted groups of services.
- Rolled out to 160 internal services covering over 1 million server instances.

### EQ Works

Toronto, ON

SOFTWARE DEVELOPER INTERN

April 2021 - August 2021

- Created automated workflows 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.

### Prefix

Toronto, ON

FULL STACK DEVELOPER INTERN

April 2020 - August 2020

- Lead development on 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.

### PointClickCare

Mississauga, ON

SOFTWARE ENGINEER INTERN

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.

## Extracurricular Activity

### University of Toronto - Department of Computer Science

Toronto, ON

TEACHING ASSISTANT - CSC148 INTRODUCTION TO COMPUTER SCIENCE

January 2022 - April 2022

- Provided classroom support during lectures, operated office hours, and graded exams for an introductory Python course.

### Neurotech UofT

Toronto, ON

WEB DEVELOPER

February 2020 - April 2020

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

## Projects

### Private Cloud

SELF-HOSTED CLOUD STORAGE SOLUTION

- A Dropbox-style cloud storage app built from scratch
- React frontend, Node.js + MongoDB backend, cloud hosted
- Created 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: CSC369 Operating Systems - CSC373 Algorithms Design & Analysis - CSC324 Principles of Programming Languages - CSC263 Data Structures - CSC209 Software Tools and System Programming - CSC207 Software Design