



## SKILLS

### Languages

• Javascript • HTML5 • CSS3 • Python • C/C++ • SQL • Bash

### Frameworks / Technologies

• React • Express • Node.js • Redux • Bootstrap • Firebase • MongoDB • MySQL • Git • WebRTC • Windows • MacOS • Linux

## EDUCATION

### University of Waterloo

Sep 2019 - Apr 2023

Bachelor of Computer Science

- University of Waterloo President's Scholarship (above 90%+ average)

### Relevant Courses

- Elementary Algorithm Design and Data Abstraction and Data Abstraction (C)
- Object-Oriented Software Development (C++)

## WORK EXPERIENCE

### Full-Stack Developer | *Apptitude Inc.* | Montreal, QC

May 2020 - Aug 2020

- Designed and developed, in agile environment, web application offering streamlined subscription-based video calls to connect students to their instructors
- Established network socket connection to allow peer-to-peer audio and video communication using WebRTC and integrated metered billing model using Stripe API
- Contained increasing complexity in testing and code management that entailed from app growth by adding Redux state management to React front end

### Junior Front-End Developer | *Helvetica* | Montreal, QC

Apr 2018 - Jun 2018

- Used React to design clean and responsive front-end interface, alongside design and product teams, to inform users about company's digital marketing and video production services
- Improved customer communication with company's production team through integration of React Hook Form, resulting in a 30% increase in monthly requests from customers
- Embed Vimeo videos in portfolio page to showcase company's achievements

## PERSONAL PROJECTS

### MapChat | [github.com/vicswu/MapChat](https://github.com/vicswu/MapChat)

- Developed location-based messaging app with MongoDB collection, Express server, React and Node.js
- Allowed users to create public chatrooms in desired locations on map rendered with Google Maps API and to message each other instantly thanks to Socket.IO
- Created secure RESTful API for select and action queries in order to retrieve documents and to insert additional coordinates according to the defined schema

### Real Time COVID-19 Visualizer | [github.com/vicswu/Covid-Map-Visualizer](https://github.com/vicswu/Covid-Map-Visualizer)

- Created user-friendly web app with React front end and custom interactive map from Mapbox API in order to help users understand the severity of the pandemic
- Retrieved up-to-date data from RESTful API [disease.sh](https://disease.sh), which collects information from John Hopkins University and New York Times, using useSWR

### Stock Tracker | [github.com/vicswu/Stock-Tracker](https://github.com/vicswu/Stock-Tracker)

- Built web scraping app focused on gathering relevant information related to users' preferred stock with Node.js and Express back-end and RESTful API for stock search submission and stock portfolio
- Used Node.js Puppeteer library to control Chrome for information gathering from website's XPath, and MySQL database to store the scraped data for future use