



QUALIFICATIONS

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

Candidate for Bachelor of Computer Science

*University of Waterloo, Waterloo,
ON*

Sep 2019 - Ongoing

- 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++)

INTERESTS / EXTRACURRICULAR

Improvisation League for Science and Technology

- 3rd place among Quebec high
school participants in 2017

Basketball

- Shooting guard in College
Saint-Louis high school team
- Refereed for 4 summers for
West Island Outdoor
Basketball League

Global Brigades

- Humanitarian trip to
Tegucigalpa, Honduras
- Assisted physicians,
optometrists and
pharmacists during medical
consultations in local
communities

EXPERIENCE

Full-Stack Developer

Appitude Inc., Montreal, QC | May 2020 - Aug 2020

- Designed and developed, in agile environment, web application offering streamlined subscription-based video-calls to connect instructors and students
- Established network socket connection to allow peer-to-peer audio and video communication using **WebRTC** and integrated metered billing model thanks to **Stripe API**
- Added **Redux** state management to **React** front end in order to make code more manageable, organized and easier to test as the app grows

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 team, 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

Lifeguard

Royal Montreal Golf Club, Montreal, QC | Jun 2018 - Sep 2019

- Promoted to head lifeguard for second summer and planned entire season's shifts for fellow lifeguards to avoid schedule conflicts
- Organized social events for over 100 members and provided private swimming lessons for junior members

PERSONAL PROJECTS

MapChat

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

- 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
- Gathered up-to-date information using **useSWR** from **RESTful API disease.sh** which sources data directly from John Hopkins University and New York Times

Stock Tracker

github.com/vicswu/Stock-Tracker

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