



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

Bachelor of Computer Science
Sep 2019 - Apr 2023

- 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 West Island Outdoor Basketball League

Global Brigades

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

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

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
- Retrieved up-to-date data from **RESTful API disease.sh**, which gathers information from John Hopkins University and New York Times, using **useSWR**

Stock Tracker

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