Victor Wu

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SKILLS

Languages

· Javascript · Typescript · HTML5 · CSS3 · Python · C/C++ · SQL · Bash

Frameworks / Technologies

· React · Next.js · Express · Node.js · Redux · Firebase · MongoDB · MySQL · Git · Windows · MacOS · Linux

WORK EXPERIENCE

Full-Stack Developer | Toronto, ON   **Jan 2021 - Apr 2021**
Honeybee Hub Inc.

- Optimized search engine through integration of **MongoDB Atlas Search** aggregation pipeline which improved accuracy of results for participants and visibility of posted studies for researchers
- Developed referral system that increased user engagement of eligible studies by 300% over span of one month
- Integrated full-stack feature handling transfer of cash and gift card rewards from researchers to participants
- Led agile web development team in implementation of participants' user profile data collection system that allowed for more precise recommended studies and personalized user experience

Web Developer | Montreal, QC   **May 2020 - Aug 2020**
Apptitude Inc.

- Designed and developed web application offering streamlined subscription-based video calls to connect students to their instructors, which won 2020 E-Launch Award and received 5,000$ prize money among 50+ startups
- Established network socket connection to allow peer-to-peer audio and video communication using **WebRTC** and integrated metered billing model using **Stripe API**
- Managed increasing complexity in testing and code management that entailed from app growth by adding **Redux** state management to **React** front end

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 on map rendered with **Google Maps API** and to message each other in real time thanks to **Socket.IO**

COVID-19 Visualizer

github.com/vicswu/Covid-Map-Visualizer

- Created web app with **React** front end and custom interactive map from **Mapbox API** to demonstrate current severity of pandemic
- Retrieved up-to-date data using **useSWR** from **RESTful API disease.sh**

EDUCATION

University of Waterloo | Waterloo, ON   **Sep 2019 - Apr 2023**
Bachelor of Computer Science

· University of Waterloo President's Scholarship (above 90%+ average) · Working towards Economics Minor

Relevant Courses

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