Victor Wu

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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 Coursework
· Algorithm Design and Data Abstraction and Data Abstraction · Object-Oriented Software Development · Data Structures and Data Management · Algorithms · User Interfaces · Operating Systems

SKILLS

Languages
· Javascript · Typescript · HTML5 · CSS3 · Python · C · C++ · SQL · R · Bash
Frameworks / Technologies
· React · Express · Node.js · Next.js · Redux · Firebase · MongoDB · MySQL · Git · Windows · MacOS · Linux

WORK EXPERIENCE

Connected TV Developer | Toronto, ON **Sep 2021 - Dec 2021**
Accedo
- Coordinated with **SiriusXM** client to specify required functionalities for new **Xfinity X1 radio streaming** application that will offer over **350 full-time channels** to **20.4 million users**
- Migrated existing services from **SiriusXM Angular FireTV** application to new **React** application with **Accedo's XDK4** software and set up **Redux store** for implementation of live audio and video players, user settings and content tile data fetching
- Implemented **Adobe Heartbeat** and **Adobe Omniture** in new **Samsung TV** application for **CNBC** client to track video session events and page view events for better insights on users' engagement while using the application

Full-Stack Developer | Toronto, ON **Jan 2021 - Apr 2021**
Honeybee Hub Inc.
- Developed referral system that increased participating studies' user engagement by **300%** over span of one month with **Typescript** on **MERN** stack web application
- Integrated full-stack feature that simplified transfer of cash and gift card rewards through use of **Tremendous API**
- 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
- Optimized search engine through integration of **MongoDB Atlas Search** aggregation pipeline which improved accuracy of search results by **over 50%**

PROJECTS

Python Chess Program
github.com/vicswu/chess-python-AI
- Created classic chess game with dynamic animations using **Pygame** module
- Displayed complete move log and all legal moves for selected pieces
- Incorporated option to play against AI which uses minimax algorithm with adjustable depth to determine optimal move

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**