

VICTOR ZHENG

EXPERIENCE

Full Stack Web Developer

Tradable Bits

Jan 2022 – Apr 2022

- Created marketing and data analytics tools for clients such as Ticketmaster and Live Nation through **JavaScript**, **Python** and **SQL**
- Spearheaded the development of a scheduled email system through distributed task queues to send automated emails on customized marketing data to over 30 clients, saving each client **2 hours** of manual report creation per week
- Developed a new customizable marketing campaign for multiple international music companies with the **Spotify** and **Apple Music API** through **OAuth 2.0** to allow fans to pre-save songs
- Implemented live video banners into the livestreaming platform used by the Toronto Maple Leafs and the Toronto Raptors through **websockets** to serve real-time game highlights to an average of **6,500 concurrent viewers**

Software Developer

1Password

May 2021 – Aug 2021

- Created tools for account administrators using **React**, **TypeScript**, and **Go**
- Led the development of the **OAuth 2.0** flow used in multiple integrations, such as the Slack integration used by over **7,700** daily active accounts, preventing CSRF and authorization code injection attacks
- Restructured tightly coupled custom group permissions, resolving customer complaints for accounts totalling more than **1,400 users**

Team Captain

WATonomous

Sep 2020 – Present

- Led a **70-member** student design team in developing a fully autonomous vehicle
- Prepared sponsorship proposals and raised over **\$50,000** in the past two years
- Streamlined discussions with multiple Fortune 500 companies, resulting in exclusive recruitment partnerships for WATonomous

PROJECTS

CodeyBot

Jan 2022 - Present

- Contributed to a custom [Discord Bot](#) using **TypeScript** and **Node.js** for the Waterloo Computer Science Club server of over **2,000 members**
- Developed a user profile system using **SQLite** to promote interaction between members and to pair mentors and mentees together

Fread

Apr 2021 - Aug 2021

- Created a [mobile app](#) that allows users to scan and learn how to pronounce words from photos using **React Native** and **Firebase**
- Implemented scanning and detection of words within images through expo-camera and **Cloud Vision API**

CONTACT

@ v2zheng@uwaterloo.ca

victor-zheng.com

in vzheng1

smilesthesad

SKILLS

Languages

Python JavaScript SQL
Go C C++ HTML
CSS

Frameworks and Tools

React React Native Git
Node.js Flask MongoDB
Firebase AWS

ACHIEVEMENTS

- 2nd out of 8 teams**
SAE AutoDrive Challenge
presented by General Motors
and SAE
- 3rd out of 20 teams**
FraserHacks 2019
- Top 32 out of 200 teams**
IPPF essay competition
presented by New York
University

CERTIFICATES

- AWS Certified Cloud
Practitioner
- Google Data Analytics
Certificate

EDUCATION

Bachelor of Computer Science

University of Waterloo

Sep 2020 - Apr 2025

Cumulative Average: 90.4%