

VICTOR ZHENG

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in vzheng1

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EDUCATION

Bachelor of Computer Science | GPA: 3.77/4.0

📅 Sep 2020 - Apr 2025

University of Waterloo

EXPERIENCE

Software Developer

📅 Sep 2022 - Present

Vendia

Full Stack Web Developer

📅 Jan 2022 - Apr 2022

Tradable Bits

- Created marketing and data 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

📅 May 2021 - Aug 2021

1Password

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

Team Captain

📅 Sep 2020 - Present

WATonomous

- Led a **70-member** student design team in developing a fully autonomous vehicle, leading weekly boards meetings and biweekly all-hands
- Streamlined discussions with multiple Fortune 500 companies, resulting in exclusive recruitment partnerships for WATonomous and over **\$50,000** raised

PROJECTS

Rowan House Course Platform

📅 May 2022 - Present

- Built the course learning platform for [Rowan House Society](#), a women's emergency shelter using **React**, **TypeScript**, **Node.js**, **MongoDB** and **GraphQL**
- Created an easy-to-use course builder saving **\$10,000** a year from their previous paid course builder
- Implemented customizable lesson components and added ability to save lesson progressions used in courses by over **1,400 students** through their preventative education program

CodeyBot

📅 Jan 2022 - Present

- Developed a [Discord Bot](#) using **TypeScript** and **Node.js** for the **3,000-member** Waterloo Computer Science Club server
- Created a user profile system to increase community engagement and pair mentors and mentees through **SQLite**
- Automated role assignments for current students and alumni based on their profiles, allowing for an easy way to make announcements to students of a specific year

SKILLS

Languages: Python, JavaScript, SQL, Go, C, C++, HTML/CSS

Tools and Technologies: React, React Native, Git, Node.js, Express, GraphQL, Flask, MongoDB, AWS