

# VICTOR ZHENG

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## EDUCATION

Bachelor of Computer Science | GPA: 3.77/4.0

📅 Sep 2020 - May 2024

University of Waterloo

## EXPERIENCE

Software Developer Intern

📅 Sep 2022 - Present

Vendia

- Developed a data-sharing application to facilitate data exchange for businesses using **TypeScript** and the **AWS SDK**
- Led the development of a pull-based system to efficiently ingest over **1 million Salesforce customer records** from a large airline alliance into Vendia using **AWS Lambda**, **DynamoDB**, and **CloudFormation**.
- Automated cross-validation of Vendia and Salesforce schemas at deployment time, saving **1 hour of manual validation per schema change**.
- Deployed a connector to automatically write a company's **AWS EventBridge** data into Vendia for secure sharing with other companies in their network using **AWS Lambda**, **EventBridge** and **CloudFormation**.

Full Stack Web Developer Intern

📅 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 Intern

📅 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**

## PROJECTS

Rowan House Course Platform 🔄

📅 May 2022 - Oct 2022

- 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 **\$9,500** 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](#) for the **3,600-member** Waterloo Computer Science Club server using **TypeScript** and **Node.js**
- Created a user profile system to increase community engagement and pair mentors and mentees through **SQLite**

## SKILLS AND CERTIFICATIONS

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

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

Certifications: AWS Certified Developer - Associate, Google Data Analytics Certificate