

VICTOR ZHENG

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EDUCATION

Bachelor of Computer Science

Sep 2020 - Apr 2025

University of Waterloo | Cumulative GPA: 3.78/4

EXPERIENCE

Intuit

May 2023 - Present

Software Engineer Intern

- Creating Intuit's cloud development environments platform using **React**, **TypeScript**, **Go**, and **Kubernetes**

Vendia

Sep 2022 - Apr 2023

Software Engineer Intern

- Engineered and developed a data pipeline to efficiently ingest over **1.2 million Salesforce customer records** from a major airline alliance into Vendia using **TypeScript**, **AWS Lambda**, **DynamoDB**, and **CloudFormation**
- Published an internal debugging tool to seed, trace, and replay data changes with **Node.js** and **DynamoDB**, speeding up the development cycle for the data pipeline by 40%
- Automated cross-validation of Vendia and customer Salesforce schemas through **GraphQL** introspection to guarantee seamless integrations of customer schema changes

Tradable Bits

Jan 2022 - Apr 2022

Full Stack Developer Intern

- Implemented live video banners into the Toronto Raptors' livestreaming platform through **WebSockets** to serve real-time game highlights to an average of 6,500 concurrent viewers
- Spearheaded the creation of a scheduled email system to send automated emails on customized marketing data using **Python** and **SQL**, saving over 30 clients 2 hours per week of manual report creation
- Developed a new customizable marketing campaign with **JavaScript** for multiple international music companies to allow fans to pre-save songs on Spotify and Apple Music using **OAuth 2.0**

1Password

May 2021 - Aug 2021

Software Developer Intern

- Led the architecture of the new **OAuth 2.0** flow implemented in multiple third-party integrations used by more than 7,700 daily active accounts with **TypeScript**, **Go** and **Redis**, preventing CSRF and authorization code injection attacks
- Redesigned custom account group permissions for fine-grained access control through bitmasking with **React** and **TypeScript** to prevent invalid permission configurations, resolving customer complaints for more than 1,400 users

PROJECTS

WATonomous Finance System

Sep 2022 - Present

- Created a finance system for an 80-student design team to manage funding and purchases, spearheading the database and system architecture through **JavaScript**, **React**, and **Node.js**
- Implemented robust endpoints in **Express** that ensured referential integrity of data through cascade updates and deletes in addition to using **MongoDB** aggregation pipelines for dynamically generated fields

UW Blueprint - Rowan House Course Platform

May 2022 - Oct 2022

- Implemented customizable lesson components using **React** and **TypeScript** in a course builder for Rowan House Society, a women's emergency shelter, saving \$9,750 per year from their previous paid course builder
- Introduced a feature to save lesson progress with **Node.js**, **MongoDB**, and **GraphQL** used by over 1,600 students in Rowan House's preventative education course for domestic abuse

SKILLS AND CERTIFICATIONS

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

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

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