

# TRI HO

416-884-8554 | [tri.ho@uwaterloo.ca](mailto:tri.ho@uwaterloo.ca) | [linkedin.com/in/tri-ho](https://www.linkedin.com/in/tri-ho) | [github.com/vinhocent](https://github.com/vinhocent) | [triho.dev/](https://triho.dev/)

## EDUCATION

### University of Waterloo

Bachelor of Computer Science, Minor in Combinatorics & Optimization

Waterloo, ON

Grad Date: **Dec 2025**

**Courses:** Algorithms, Data Structures, Operating Systems, Object Oriented Programming, Artificial Intelligence, Compilers, Software and Systems Security, Network Flow Theory, Applied Cryptography

## EXPERIENCE

### Wealthsimple - Software Engineer Intern

Sep 2024 – Present

- Owned development of **GraphQL** API, in order to support client data consumption to be identity-based and reducing invalid client data on-call tickets
- Propose and drove changes to centralize data models and APIs, reducing code complexity and data inconsistency

### Vendia - Software Engineer Intern

May 2024 – Sep 2024

- Optimized marketing team's efficiency by implementing user analytics in Hubspot during free-trial onboarding, leveraging **AWS EventBridge** with custom events written in **Typescript** and **Python**, resulting in a **12%** increase in conversion rates and **25%** improvement in user engagement
- Architected a user event notification system, driving user retention rate up by **18%** by streamlining user follow-up process through **AWS Lambda**, connecting application to Slack for real-time updates

### 1Password - Software Engineer Intern

Sep 2022 – Dec 2022

- Reduced customer provisioning time by **50%** for **125k** users for B2B enterprise solution by optimizing SQL command efficiency and streamlining API endpoints using **GoLang**, **Docker** and **GCP**
- Increased developer productivity and enabled scalable testing by building out load-testing tool to mock behavior of common identity providers for 180k test users using **Typescript** and **k6**
- Identified product's existing scalability limitations, by devising testing protocol utilizing **Kubernetes Engine Analytics** and **Datadog Resource Monitoring**, decreasing latency by **98.8%**

### Huawei - Software Engineer Intern

Jan 2022 – Apr 2022

- Significantly improved database performance by designing and executing detailed performance tests and advanced query optimizations in **SQL**, successfully pinpointing and eliminating bottlenecks

### 1Password - Software Engineer Intern

May 2021 – Sep 2021

- Accelerated client onboarding and improved developer experience by modernizing Health and API Token User Interface used by over **900 active businesses** from HTML/CSS to **React** and **Typescript**
- Increased developer and customer observability by implementing debugging/issue logging of CLI application, utilizing **GoLang**, containerized through **Docker** and deployed on **Google Cloud Platform**

## TECHNICAL SKILLS

**Languages:** C/C++, JavaScript/TypeScript, Python, Go/Golang, Rust, Ruby, SQL, HTML/CSS

**Frameworks/Libraries:** React, NodeJS, Flask, NextJS, GraphQL, Tailwind, gRPC

**Technologies:** Git, Docker, AWS, GCP, MySQL, PostgreSQL, Kubernetes, Redis, Datadog, Elasticsearch, Firebase

## PROJECTS

### WinterFixesTwitter

Nov 2023 – Present

- Built out personal bot that fixes broken Twitter/X embeds on Discord for images and videos
- Services over 20 users daily at high rates of traffics, utilizing Redis to cache commonly sent media

### Companion

Jan 2021

- Worked with 3 other students to develop a mental health messaging web application using Socket.io and AFFIN-based sentiment analysis and detailed data visualization via D3.js
- Implemented authentication via Google OAuth and stored metrics such as time spent, total messages groups with Firebase