TRI HO

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EDUCATION

University of Waterloo   **Waterloo, ON**
Bachelor of Computer Science, Minor in Combinatorics & Optimization   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