TRI HO

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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, Jupyter, Docker, AWS, GCP, MySQL, PostgreSQL, Kubernetes, Redis, Datadog, Elasticsearch, Firebase

EDUCATION

University of Waterloo   Sept 2020 - Dec 2025
Bachelor of Computer Science, Minor in Combinatorics & Optimization
Courses: *Algorithms, Data Structures, Operating Systems, Object Oriented Programming, Concurrent & Parallel Programming, Artificial Intelligence, Compilers, Software and Systems Security, Network Flow Theory, Applied Cryptography*

EXPERIENCE

Meta - Software Engineer Intern   May 2025 – Aug 2025
- Expanded coverage and usability of Automated Feature Evaluation (Autoeval) platform for models generating **$150M daily revenue** using **Python**, enabling rapid feature impact assessment and accelerating revenue growth
- Improved reliability & operational visibility of Autoeval by building a recurring integration test framework in **Jupyter** with real-time alerting, cutting on-call response time by **53%** and preventing silent regressions in model training
- Enhanced training workflow monitoring for models generating **17% of revenue** by building a health dashboard using **SQL** and **Unidash** to track success rates, flag failures, and trace downstream errors

Wealthsimple - Software Engineer Intern   Sep 2024 – Dec 2024
- Reduced on-call incidents by 40% through consolidation of data models during microservice-to-monolith migration, eliminating race conditions and improving data record reliability in **Ruby on Rails** and **Apache Kafka**
- Owned development of **GraphQL** API, in order to support client data consumption to be identity-based and reducing invalid client data on-call tickets

Vendia - Software Engineer Intern   May 2024 – Sep 2024
- Boosted marketing team efficiency by integrating user analytics through custom event pipelines using **AWS EventBridge, TypeScript**, and **Python**, increasing conversion rates by 12% and user engagement by 25%
- 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**

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**

PROJECTS

WinterFixesTwitter ⎇
- 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 ⚭
- Worked with 3 other teammates 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