

EDUCATION

University of Waterloo

Sep 2020 - Apr 2025

Bachelor of Software Engineering (BSE) - 4A Term

3.7/4.0 cGPA

- Courses: Software Engineering Principles, Data Structures and Algorithms, Operating Systems, Intro to Database Management, User Interfaces, Computer Networks, Intro to Machine Learning

TECHNICAL SKILLS

Languages | Java, C/C#/C++, Go, Javascript, Typescript, Python3, Kotlin, HTML/CSS, GraphQL

Technologies | REST APIs, gRPC, Spring, React, React Native, NodeJS, ExpressJS, Expo, PyTorch, Svelte, Redux

Databases | MongoDB, Redis, MySQL, Postgres

EXPERIENCE

Stealth Startup

May 2024 - Aug 2024

Software Engineer Intern - Mobile Team

- Optimized venue loading times by **40%** by implementing a pre-fetching algorithm using **GraphQL** and **Typescript**
- Designed and developed a high throughput document generating API achieving sub **150ms** latency at **P99.9**
- Built a Native module to enhance application security, successfully achieving compliance with multiple client security standards and requirements

Veeva Systems

Jan 2024 - Apr 2024

Software Engineer Intern - Safety Intake Team

- Designed and implemented a multi-threaded, high-performance algorithm in **Java** to parse XML files to database records with a throughput of **300 MBps**
- Added support for parsing new Japanese PMDA files and implementing user-facing validation warnings and localizations

Baron Biosystems

May 2023 - Aug 2023

Software Engineer Intern

- Created an efficient event scheduling algorithm using **Svelte**, **WebAssembly**, and **C++**, resulting in a **40%** increase in premium user engagement
- Decreased page loading times by **50%** through refactoring heavily outdated code using **PHP**, **Redis**, **MySQL** and **MongoDB**
- Improved user engagement by **15%** by integrating Garmin API to streamline workout exporting and management using **PHP**, **Laravel**, **Redis**, and **MySQL**

Prodigy Education

Sep 2022 - Dec 2022

Software Engineer Intern - Educators Team

- Reduced **GraphQL** endpoint latency by **90%** through data loaders and batching
- Raised teacher retention rate by **40%** as measured by **Segment** by developing a new onboarding flow in **React**
- Led a data collection improvement initiative using **Segment**, increased teacher analytics data throughput by **30%**
- Boosted teacher activity by **15%** by implementing deep link and push notification features in **React Native**

blueRover

Jan 2022 - Apr 2022

Full Stack Developer

- Scaled monthly report generation data throughput by more than **10x** using **Javascript** and **ExpressJS**
- Reduced **RESTful API** latency by **70%** and increased report throughput by **40%** by optimizing server-side report generation

PROJECTS

Sundial

Dec 2023

- AI Powered scheduler and calendar generator web app built in **Typescript**, **Go**, **MySQL**
- Leveraged Cohere **Command R+** **API** to parse course syllabi and create appropriate calendar events
- Built server-side APIs and authentication services using **Go**