

## Work Experience

### Software Engineering Intern

FreshBooks  Toronto, ON

 Node.js (Ember), Python (Flask, SQLAlchemy, Celery), Docker, AMQP

 Jan 2022 — Present

- Added features to internal services powering the Developer Portal and App Store

### Software Engineering Intern

Tribe Community Platform  Toronto, ON

 Node.js (NestJS, TypeORM, React), GraphQL, Docker, Elasticsearch

 May 2021 — Aug 2021

- Developed key features for the release of Tribe V2, a Forbes Cloud 100 Rising Star platform for creating highly customizable communities to engage customers, using **NestJS microservices** and **GraphQL**
- Implemented APIs allowing users to create Tribe Apps to extend a community's functionality
- Led and managed the development of the Zapier app to deliver the most highly-requested features from Tribe V1 to thousands of early-access communities and key stakeholders
- Adopted agile methodology working in feature-oriented teams through sprint planning and daily standups

### Co-founder and CTO

AlumNav Inc.  [www.alumnav.com](http://www.alumnav.com)

 TypeScript, Pug, SCSS, GitHub Actions

 Jun 2020 — Present

- Co-founded a registered NPO and created a web platform to provide personalized mentorship for over 5,000 high school students
- Developed website using **Pug/TS/SCSS**, set up **CI/CD** with GitHub Actions and Netlify

### Software Engineer

WZMH Architects  Toronto, ON

 Node.js (RoutingControllers, React Native), WebSockets, Docker

 Mar 2020 — Jul 2020

- Created software for the BlackBox5 IoT project to control objects (e.g. lights, roller shades) through a **React Native** app and through configurable sensors with live updates using **WebSockets**
- Implemented backend in **Node.js** to interface with an Arduino microcontroller through a **REST API**, storing device and connection data in a **PostgreSQL** database and deployed using **Docker**

## Projects

### vsordle.io

 Deno, WebSockets, Node.js (React, MobX), Redis, Docker

- Developed a browser-based multiplayer version of the game Wordle, adding a large variety of customization options

### intabs.io

 Node.js (Next.js, React), Java (Spring)

- Created a platform to help students seeking internships find, share, and track salaries, reviews, and timelines

### BlockOJ

 Node.js (Express), C, PostgreSQL, AWS EC2

- Winning project for the Hack the 6ix hackathon designed to introduce youth to coding and problem-solving
- Built interface allowing users to solve coding problems using an intuitive block-based drag-and-drop coding system

### TriviaMaster

 Node.js (discord.js, React, Apollo, Hapi), Hasura, PostgreSQL, Kubernetes (Minikube)

- Platform for users to play trivia games through a Discord bot, website, or mobile app frontend with >300 000 users
- Auth service built in TS using a custom-made decorator-based wrapper over Hapi for control over Hasura resources

## Skills

**Languages** — JavaScript/TypeScript, Python, Java, C++, Go

**Tools** — Docker, Git, Jest, Office, Jira

**Server/Web** — Node.js, Django/Flask, NextJS/React, Vue/Nuxt, REST, GraphQL, NestJS/Express

**Services** — PostgreSQL, MongoDB, Redis, TypeORM, SQLAlchemy, Prisma, Kafka

## Awards

**Semifinalist** — TD Cybersecurity Live Case Competition

 Dec 2020

- Created a prototype to solve a business case and delivered a pitch to senior management at Canada's largest bank

## Education

### Teaching Assistant

Math 115 - Linear Algebra

 Sept 2021 — Present

 University of Waterloo

### Bachelor of Computer Science

Dean's Term Honour List (F'20, W'21)

 Sept 2020 — Present

 University of Waterloo