

EDUCATION

- **University of Toronto Mississauga**

Computer Science Specialist

Sep. 2018 – Apr. 2022

- **University of Toronto Scholar**
- **2018-2019 Mathematical & Computational Sciences Honour Roll**

EXPERIENCE

- **Math Tutor**

High School Math Tutor

June 2019 - Aug. 2019

- **Competition Maths:** Covered topics for the Canadian Open Mathematics Challenge and Waterloo Mathematics and Computing Contests.

PROGRAMMING SKILLS

- **Languages:**

- **Proficient:** Golang, Python, Java, JavaScript/HTML/CSS, TypeScript
- **Competent:** C/C++, Rust, C#

- **Technologies:** Amazon Web Services, Docker, Node.js

- **Frameworks:** JavaFX, Qt, GTK, Gorilla

- **Tools:** Linux, Bash, Git

PROJECTS 🔄

- **MikuBot:** General purpose Discord bot with over 25,000 users in more than 300 servers.

- **Heroku Platform:** Running on an ephemeral instance.
- **Amazon DynamoDB:** Database for backing up server data.
- **Docker:** Ready to deploy Docker image.
- **Travis CI:** Automated unit testing.
- **Youtube Data API:** Play music in voice channels from YouTube videos.

- **Decentralized Text Chat Web App:** Work in progress. Peer to peer text chat using WebRTC.

- **Resauce - File Rename Utility:** Work in progress. Qt desktop application developed with a team of two.

- **RESTful Pokemon API:** Pokemon Stats API built with Golang.

- **Math Expression Evaluator:** Evaluates basic math expressions in Golang using Shunting Yard and Reverse Polish.

- **MyAnimeList Web Scraper:** Scrapes movie and TV show data from MyAnimeList in Python 3.

- **TicTacToe Engine:** Implemented in Rust using a minimax algorithm.

- **Jikan-go:** Golang wrapper for Jikan API.

- **Triangle Solver Web App:** Responsive client-side JavaScript web app using Bootstrap that solves side lengths and angles of triangles given incomplete information. Ported to desktop using NW.js.

- **Stocks Analyzer:** C# desktop application for analyzing stocks using regression formulas and curve fitting.

INVOLVEMENTS 🔄

- **V Programming Language:** Simple, fast, safe, compiled language for developing maintainable software.

- **Contributor:** Worked on fixing bugs for the V compiler and parser. Also made improvements to V's standard library.

- **UTM Robotics:** utmrobotics.com

- **Lead Web Developer:** Worked on website redesign. Website built with Jekyll.