

Employment

Software Developer **ITN Holdings - ProvantageX** Jan 2019 – July 2019

- Full stack development of integrated demand side and sales side platform.
- Wrote caching service and algorithm that improved performance when loading thousands of records by 40%.
- Rebuilt UI, API, and backend services for various components of the system ensuring data privacy and integrity. Focused on designing the system for future scalability and maintainability.

Software Developer **Frozen Mountain Software** Sept 2017 - Jan 2019

- Scaled internal WebRTC testing tool on the AWS platform from a handful of concurrent connections to thousands. Saving the company and their clients tens of thousands of dollars in vendor testing fees.
- Designed and implemented features for a web learning platform as an agile full stack developer
- Discovered and resolved several critical security flaws in the ASP.NET platform API and endpoints.

SDE Intern **Microsoft** Summer 2016

- Utilized Azure Spark to process metadata from 1 million songs to discover meaningful insights.
- Authored machine learning and big data templates with terabyte scale datasets.
- Created a tutorial for CIQS to demonstrate to hundreds of Microsoft cloud customers.

SDE Intern **Forest Technology Systems Inc** Summer 2015

- Designed and wrote a multithreaded firmware updater for proprietary hardware, reduced flash time by 500x.
- Added support for two new products by reverse engineering an undocumented internal protocol and developing a new module to ensure compatibility with the legacy updater.

Projects

AntiDose | www.antidose.ca 2nd Place, Capstone Android, Java, Golang

- Connects users encountering an overdose to responders with Narcan kits using Android location API.
- Worked on Android application, UX, debugging and quality assurance.

iAmBelle 1st Place, HackUVic Python, C

- A Twitter bot that uses computer vision to provide relevant commentary on users' photos.
- Designed and engineered the interface to the image recognition API, and the filtering logic to produce more meaningful results.

Autonomous Robots 1st Place UVEC, 2nd Place WEC C, Hardware

- Multiple autonomous cart-like robots to complete various challenges at multiple competitions.

Skills

Proficient in: C#, C, Regex, Git, Bash.

Competent using: React, JavaScript, Python, Java, SQL, HTML, CSS, Jira, AWS, Entity Framework.

Familiar with: Riot, ExtJS, ASM, Hadoop, Spark.