

## WORK EXPERIENCE

### BDO Solutions

Software Consultant  
*Winter 2016*

- Developed on a multi-tenant applicant in .NET, using concepts such as Dependency Injection (IoC), implemented SQL Procedures, and performed Data Integration using SQL Server Integration Services.
- Implemented MailMerge to generate custom letter templates for customers based on their application status.

### DBRS

Software Engineer  
*Spring 2015*

- Implemented RESTful features using MVC patterns with .NET (C#), Angular (directives and services) and Entity Framework (ORM)
- Created Excel add-in in C# to import, parse, and export data
- Developed Powershell scripts to merge Excel sheets together

### Knowroaming

Web Developer  
*Fall 2014*

- **Testr** - Created a browser testing GUI using JavaFX and Selenium to create automated test suites, increasing unit test coverage by 80%
- Lead the development of [mobile website](#) using PHP, jQuery and Java, which was used directly by the customers.

### Maple Leaf Foods

Security Analyst  
*Winter 2014*

- Analysed and identified malicious bugs across the network, got introduced to security, networking and protocols.
- Found a worm using IronPort which would multiply itself and would send over 35,000+ malicious emails during weekend.

## RECENT PROJECTS

### Calfit

*Feb - March 2016*

- Notifications triggered using Node.js, Express APIs, and delivered using Google Cloud Messaging when an employee deserves a break.
- Deployed it on Microsoft Azure and, created the [promotional video](#).

### Sugar Nanny

*Jan 2016*

- 'Top 10', 'Best Life-saving app' and 'Best use of AWS' at UoT Hacks
- Created front-end features in Angular that track sugar-level, and provides insulin recommendation based on food intake.

### Pebilepsy

*Sept 2015*

- 'Best Pebble App' at Hack the North by developing a nocturnal epilepsy tracker and prevention application.
- Developed an Android platform where the data is instantly uploaded to web, recording and visualizing the seizure-like incidents.
- Featured On : [Hacker News](#), [DevPost](#), [Med Gadgets](#)

### Path Follower

*Sept - Dec 2015*

- Configured, tested sensors, and programmed microcontroller using C creating a path following robot.
- Illumated surface with IR LED and steered the robot using photo-diode.

### Potentiometer

*March 2015*

- Calibrated an infrared sensor output using Arduino, C and Python to fit a curve to predict the distance from an object with 0.15 cm accuracy

### Music Notes

*November 2015*

- Used frequency analysis to transcribe classical piano pieces into sheet music using MATLAB.
- Resynthesised the notes clip and used statistics to determine accuracy.

## SKILLS

### Languages:

Java, C#, C++, C, Python, MATLAB, PHP

### Frameworks:

Microsoft .NET, jQuery, Angular, Node.js, Express, Selenium

### Database:

MySQL MongoDB MSSQL

### Other:

Powershell, Azure, Bluemix, Watson

### Embedded:

FPGA, PLC, Arduino

## EDUCATION

### University of Waterloo

3A Mechatronics Engineering  
Graduating May, 2018

## LEADERSHIP

### Machine Learning Presentor

Informed large professional audience (40+) on neural networks, deep machine learning and advanced machine learning.

### PCB Design Director

Introduced PCB Design best practices, introductory level common mistakes and demoed EAGLE software.

### Networking Director

Led the organization and marketing of a student-alumni networking event.

