

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 to 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.

Pebblepsy

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.
- Illuminated 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

Presenter at BDO

Informed large professional audience on neural networks, deep machine learning and advanced machine learning.

Networking Director

Led the organization and marketing of a student-alumni networking event, boosting attendance by 250%.

MATLAB Directors

Introduced MATLAB usage, applications and, its best practices to a group of students.

PCB Design Directors

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