

WORK EXPERIENCE

BDO Solutions

Software Consultant
Winter 2016

- Bought a large scale two year project to completion for Dairy Farmers of Nova Scotia which manages the milk distribution and quality control.
- Built features for the above multi-tenant application with C# and MSSQL.
- Completed Data Integration across client databases, migrating 80% of client data using 'SQL Server Integration Services'.

DBRS

Software Engineer
Spring 2015

- Implemented REST features with C#, .NET and Angular.js which allowed analysts to track rating committee minutes, reducing the duration of meetings by ~30 minutes.
- Developed Excel add-in in C# to import, parse, and export data.

Knowroaming

Web Developer
Fall 2014

- 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

Sugar Nanny

Jan 2016

- 'Top 10', 'Best Life-saving app' and 'Best use of AWS' at UoT Hacks
Created web application that tracks sugar-level, and provides insulin recommendation based on food intake.
- Featured On: [Veeva](#), [Toronto](#)

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](#)

Space Invaders

Nov 2015

- Programmed space invaders in C for Keil microcontroller. Used a multi-threaded architecture, semaphore locks and hardware interrupts to interface with peripherals such as joystick.

Path Follower

Sept - Dec 2015

- Configured, tested sensors, and programmed microcontroller using C creating a path following robot. Illumated surface with infra-red 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 of resynthesis.

SKILLS

Languages:

Java, C#, C++, C, JavaScript, Python, MATLAB

Front End:

Angular.js, jQuery, Bootstrap

Back End:

.NET, Node.js, Express, PHP

Testing:

Selenium, Chai, Mocha

Database:

MySQL, MongoDB, SQL Server

Other:

Powershell, Azure, Google Cloud Messenger, Socket.io, RabbitMQ, Redis

Embedded:

Arduino, Keil, Altera DE-2

LEADERSHIP

Machine Learning Presenter

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 in front of 150+ students.

Networking Director

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

EDUCATION

University of Waterloo

3A Mechatronics Engineering
Graduating May, 2018