

SKILLS

General:

Java, C#, C++, C, Python, Javascript, MATLAB

Front-end:

Angular, Bootstrap, jQuery, Underscore

Back-end:

SQL, MongoDB, Node.js, Tomcat

Tools:

Git, SVN, RabbitMQ, LINQ, Powershell

Testing:

Chai, Mocha, Selenium

Embedded:

PLC, FPGA, Keil, Arduino

Developing:

Embedded Systems, Data Analysis, Software Architecture

LEADERSHIP

Alumni-Student Networking Director

Was responsible for organizing an event where alumni and students can interact with each other. Increased the popularity of the event by 250%.

Residence Ambassador

Encouraged potential Waterloo students to live in residences.

COMPETITIONS

Capture The Flag 1 & 2

Hack The North 2015
Completed a series of programming challenges using Python. Placed among top five contestants.

WORK EXPERIENCE

DBRS

Software Engineer
Toronto, ON
Spring 2015

- Implemented full-stack features on internal web apps and Excel plugins using C#, Angular, Entity Framework and nInject, saving over 200 hrs/month in analyst time.
- Verified and migrated databases from Oracle to SQL Server using C# scripts and, re-mapped 2000 mismatched entries.

Knowroaming

Web Developer
Toronto, ON
Fall 2014

- Created a browser testing GUI using JavaFX and Selenium to quickly create automated test suites, thereby increasing end to end and unit test coverage by 80%
- Built a web app in PHP to keep track of packages sent to clients

Maple Leaf

Security Analyst
Toronto, ON
Winter 2014

- Aggregated security statistics with Selenium, saving 10 hrs/week
- Learnt several security concepts such as penetration testing

PROJECTS

Line Follower

Embedded Developer
March 2015

- Soldered electrical components on a PCB such as op-amps, resistors and transistors to design light, magnetic and rotation sensors from scratch.
- Programmed the robot in C to control it along a race track

Keil Projects

Embedded Developer

- Developed a program in C for a Keil microcontroller to allocate memory in $O(1)$ time.
- Implemented quick sort using threads and processes.

Pebblepsy

Android Developer
Sept 2014

- Won top pebble award at Hack the North by developing a nocturnal epilepsy tracker and prevention Pebble application
- Featured On : [Hacker News](#), [Challenge Post](#), [Med Gadgets](#)

Potentiometer

Developer
March 2015

- Calibrated an infrared sensor using Arduino and Python to fit a curve to predict the distance from an object.
- Used machine learning algorithms like Nearest Neighbour Search and other statistical techniques to improve accuracy to 0.15 cm

Crib

Web Developer
June 2015

- Built a chat app with a realtime poll for large groups of students to discuss housing options, implemented using Node.js and Socket.io
- Built entirely in 24 hours as part of AngelHack Toronto 2015

Airless Tire

Analyst

- Used ANSYS to understand blah blah physical systems
- Used Solidworks to design and 3D print an airless tire

Noise Filtering

Developer

- Bullshit about the SYDE 252 project using MATLAB
- Couldn't even print a fucking graph and ended up submitting late