

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

Software Developer

- Enhanced analyst productivity by implementing full-stack features on an internal web app using MVC, Angular and Entity Framework.
- Combined custom Excel plug-ins using NInject, enabling analysts to directly push spreadsheets to a production database.
- Verified and migrated databases from Oracle to SQL Server using C# scripts and, re-mapped over 2000 mismatched entries.

Tech: C#, MongoDB, Microsoft SQL, Anugular, Powershell, Excel DNA, LINQ



Web Developer

- Developed a GUI based test framework using JavaFX to manage company webpages, allowing developers to create automated test suites more quickly.
- Developed a full-stack web app to keep track of packages mailed to clients.
- Implemented unit tests in Chai and Mocha to debugging.

Tech: Java, JavaFX, SQL, JDBC, Selenium, JavaScript, Bootstrap, jQuery, PHP, Chai, Mocha



Security Analyst

- Aggregated security statistics using Selenium, thereby saving 10 man-hours/week.
- Exposed to several security concepts such as penetration testing.

Tech: Java, Selenium, FireEye, IronPort



PROJECTS

Hardware

- Pebblepsy**- 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](#)
- Sensor Calibration**- Calibrated an ultrasonic sensor using Python to fit a curve which accurately informs the length of an object placed in front of it.
- Fuel Cell Car**- Programmed a MSP430 microcontroller in C attached to a fuel cell car to control it to travel along a race track
- NXT Robot**- Programmed a robot in RobotC using NXT to find and retrieve objects on the floor.

Web and Android

- Crib** - Web Application for landlords and students in large groups to help discuss and negotiate more easily implemented using Node.js, Socket.io and Branch.io.
- FindMe**- Android application that retrieves information about any store on Google Map including information such as email, hours, contact information
- Temperature Map**- Allows the user to visually see the current temperature on world map