

# Brennan McDonald

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## SKILLS

### PROGRAMMING

Java • C# • JavaScript\NodeJS • Java  
HTML\CSS • JavaScript • C\C++

### FRAMEWORKS

React • .NET • Android •

### OTHER

Linux • Shell (Bash & ZSH) • VIM  
Docker • AWS

## LINKS

[linkedin.com/in/brennan-mcdonald](https://www.linkedin.com/in/brennan-mcdonald)  
[github.com/BrennanMcDonald](https://github.com/BrennanMcDonald)

## HACKTHONS

- nwHacks 2020
- CalHacks 6.0
- ConUHacks 2018-19
- qHacks 2019
- uOttahack 2019-20

## CERTIFICATIONS

- Amazon AWS Cloud Practitioner

## EXTRACURRICULAR

### UOTTAHACK | DEV TEAM LEAD June 2018 - Present | Ottawa, ON

uOttahack is the University of Ottawa's first and only Hackathon, a 24 hour event dedicated to programming something brand new with a team of peers.

### OTTABOTICS | DRONE TEAM SUB-LEAD September 2017 - May 2018 | Ottawa, ON

Ottabotics is the University of Ottawa's robotics team. I contributed as a member of the "IARC Drone Team" where I programmed a motor control system to read information from cameras and sensors to control the drone's motors.

## EXPERIENCE

### AMAZON INC. | SDE INTERN

June 2019 - September 2019 | Vancouver, BC

During my time at Amazon, I worked on a team that dealt with matching financial information to invoices. Dealing with hundreds of thousands of transactions a day. My role at Amazon was to expand the monitoring capabilities and metrics collected from my team's services. I was also tasked with researching and creating an attractive dashboard to display these metrics cleanly and efficiently.

### SSHRC-CSRH | SOFTWARE DEVELOPER

March 2018 - June 2019 | Ottawa, ON

SSHRC-CRSH is the government body that is responsible for all government allocated Social Sciences research funding. Working in **C#**, **.NET** and **SQL** I maintained the various websites and started ground work on an internal app to distribute information to employees.

### WEBILITY SOLUTIONS | JR. WEB DEVELOPER

March 2014 - September 2015 | Hamilton, ON

Webility solutions is one of the leading customs solutions providers for south Ontario. At Webility I was a web developer working in **C#**, **HTML**, **JS**, and **SQL**. Day to day tasks involved creating custom websites from scratch for various small business and enterprise clients.

## PROJECTS

### PTPMRR | JAVA

[github.com/BrennanMcDonald/PtPMRR](https://github.com/BrennanMcDonald/PtPMRR)

Price to Performance Modified Round Robin (PtPMRR) is a theoretical algorithm that uses price and performance data to determine the best virtual machine to run a task on in a multicloud scenario. Written and tested in **Java** using **CloudSim** for the simulation models and tests.

### ALIENSTUDIO | CSS // JS

[alienstudio.brennanmcdonald.ca](http://alienstudio.brennanmcdonald.ca)

AlienStudio is a reddit browser designed to look like Visual Studio 2012. Created using **HTML**, **CSS**, and **Javascript** with original screen shots of the Visual Studio client.

### GARLICOIN | C++ // NODEJS

[github.com/GarlicoinOrg](https://github.com/GarlicoinOrg)

Garlicoin is a satirical cryptocurrency developed by a community of a handful of Reddit members. Based off of the Litecoin sourcecode with a modified proof of work algorithm called "allium", written to be resistant to ASIC miners and allowing everyone to mine with equal opportunity.

### UOTTAHACK APPLICATION PORTAL | NOEJEJS // REACT

[github.com/uOttahack](https://github.com/uOttahack)

uOttahack is a collegiate hackathon from Ottawa, ON. For the first time, the organizing team decided to create a custom solution to handle applications and user management. This portal is comprised of an API written with **NodeJS** and Express and a frontend written in **React**.