# Sean Marcoux

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**GitHub** https://github.com/SeanMarcoux

## SUMMARY OF SKILLS AND QUALIFICATIONS

| | |
|---|---|
| **Operating Systems** | Windows • Unix (Solaris) |
| **Programming** | Java • Javascript • PHP • SQL • Bash • Python (beginner) • C++ (beginner) |
| **Frameworks** | Eclipse RCP • React • Laravel • Git |
| **Applications** | Eclipse • Docker • Marathon • Mesos • Ansible • Arduino |
| **Languages** | English│Spoken & Written • French│Spoken & Written |

## WORK EXPERIENCE

**Java Software Developer**                                        **May 2016 – August 2016**

*Government of Canada, Gloucester, ON*

Improving the deployment of the team's REST server to make it production grade.
- **Docker:** Automated deployment of server code into Docker containers.
- **Marathon:** Deployed, configured, and ran health checks on Docker containers with Marathon.
- **Ansible:** Created Ansible scripts to install all required software on new VMs in the cluster.
- **Java:** Created improvements and bug fixes for a large Eclipse RCP application

**Java Software Developer**                                   **September 2015 - December 2015**

*Government of Canada, Gloucester, ON*

Contributed to a team devoted to maintaining and improving an internal data explorer and transformation tool.
- **Java:** Created improvements and bug fixes for a large Eclipse RCP application including modifications to legacy code and significant UI improvements.
- **Web:** Developed React web application to interact with the Eclipse project and significantly improve the time required to create and debug specific queries.
- **Development:** Contributed to all aspects of software development including extensive documentation, unit testing, and code review.

**Warehouse Worker**                                        **June 2010 - August 2014 (summers)**

*Yellow Shoes, Montreal, QC*
- Led teams to examine and repair damaged stock.
- Quickly and efficiently loaded and unloaded trucks as well as sorted stock.

## EDUCATION

**Bachelor of Engineering – Software Engineering**              **September 2014 - May 2018 (Expected)**

*Concordia University, Montreal, QC*
- GPA 4.0/4.3 (Equivalent to A)
- Dean's List Tier 2 (for having a GPA of 4.1 or higher)
- Relevant Courses: Operating Systems, Software Process, Data Structures and Algorithms, Web Programming

**Computer Science and Mathematics (DEC)**                                    **August 2011 - June 2014**
Champlain College St-Lambert, Montreal, QC
- Entrance scholarship for having the highest marks in my program upon entrance
- Relevant Courses: Data Structures, Program Development in a Graphic Environment

## PROJECTS

**SOEN Schedule Builder (Academic)** https://github.com/SOEN341/Schedule-Builder   **January 2016 - May 2016**
*Concordia University, Montreal, QC*
 Led the programming team on a web based schedule generator for SOEN students using a client-server
 Architecture.
- Created a client-server application with React on the front end and Laravel on the back end.
- Managed communications between front and back end teams to ensure the team was on the same page.
- Organized and delegated tasks to team members.
- Created the majority of the multi-page UI from design, to implementation.

**New Physics of Olix (Academic)**                                        **January 2014 - May 2014**
*Champlain College St-Lambert, St-Lambert, QC*
 Created 2D physics platformer game with a partner using Java to demonstrate knowledge of object oriented
 programming and physics.
- Used proper Object Oriented techniques to create a large Java application.
- Created game from the ground up, implementing real world physics.

**Sudoku Solver (Personal)** https://github.com/SeanMarcoux/Sudoku-Solver     **October 2014 - December 2014**
 Created an application to solve any sudoku puzzle using real sudoku strategies.
- Researched and implemented real Sudoku techniques in an efficient manner.

## Extra-Curricular Activities

**Avionics Team Member**                                             **Sept 2014 – June 2015**
*Space Concordia Rocketry Division, Montreal, QC*
 Avionics team managed the programming component of a model rocket, which focused on deploying the
 parachute and retrieving the rocket after landing.
- **C#:** Created WinForm to chart data from the rocket using C#.
- **Arduino:** Created Arduino program to log the data from the rocket to be used to determine when the rocket
 should deploy its parachute.
- **Arduino:** Working on Arduino program to communicate between the rocket and the ground station to
 facilitate retrieval after landing.

**President**                                                      **August 2013 - May 2014**
*Champlain St-Lambert Anime Club, St-Lambert, QC*
- Worked with staff to obtain licensing rights and organize anime screenings
- Worked with the student association to ensure club budget was spent effectively

**Vice President**                                                  **January 2012 - May 2013**
*Champlain St-Lambert Tabletop Gaming Club, St-Lambert, QC*
- Organized large gaming events involving up to 100 students
- Recruited new members through recruitment events and socializing

**Passions**              Programming, video games, board games, anime, books, playing music