









# MAXWELLCARTER

## 3A Computer Engineering | University of Waterloo

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### Overview

- Knowledgeable about various software algorithms and data structures
- Background in Agile / Scrum software development
- Passionate about web development
- Intrigued by DevOps and event-driven automation
- Experience developing RESTful APIs and Routing Engines
- Proficient with Mac OS X, Windows, and Linux/UNIX environments
- Excellent communication skills (English & French)

### Technical Skills

- **Web Development:** HTML, CSS, JavaScript, jQuery, AJAX, AngularJS, Node.js, PHP, JSP, JSON, XML
- **Productivity:** NPM, Yeoman, GruntJS, Bower
- **Quality Assurance:** Selenium, Karma, Jasmine
- **Databases:** MySQL, Mongo DB, Elasticsearch
- **Event-Driven Automation:** StackStorm, Mistral, Bash, YAML, YAQL, Puppet, Jenkins
- **Object Oriented Programming:** Java, C, C#, C++, Python
- **Low-Level Programming:** ARM Assembly Language
- **Hardware Descriptive Language:** VHDL
- **Mobile Development:** Android
- **Animation:** Adobe Flash Professional, Action Script 3.0
- **Version Control:** Git

### Work Experience

#### Systems Software Development Student

*BlackBerry Ltd. | Waterloo, ON | Sept. 2015 – Dec. 2015*

- Developed a consolidated messaging single page web application in AngularJS for reducing cycles while normalizing communications for the BlackBerry Network Operations Centre.
- Helped define a scalable Model-View-Controller architecture for a PHP RESTful API solution to predefined endpoints.

#### Systems Software Development Student

*BlackBerry Ltd. | Waterloo, ON | Jan. 2015 – April 2015*

- Created a unified event-driven automated platform for managing BlackBerry service alert data using automated workflows with various DevOps micro-services and StackStorm integrations.
- Developed a web application admin tool in AngularJS, with a PHP RESTful API, for managing the BlackBerry Network Operations Centre's monitoring wall.

#### Front-end Developer Intern

*20-20 Technologies | Montreal, QC | May 2014 – July 2014*

- Utilized the JavaScript MEAN development stack to create a dashboard single page web application for testing many aspects of their industry leading interior design software.
- Worked in collaboration with the Quality Assurance department to help improve the existing testing automated pipeline.

#### Flash Developer

*SooToday.com | Sault Ste. Marie, ON | June 2012 – Sept. 2013*

- Worked with Adobe Creative Suite 5 and Action Script 3.0 to design and develop animated Internet advertisements for various local companies.

#### Webmaster

*Self Employed | Sault Ste. Marie, ON | July 2010 – Sept. 2013*

- Designed, developed, and maintained various websites for local companies.
- <http://saultstemarielawyers.com>, <http://cesiras.com>, <http://willsoncarter.com>, <http://lomascarpentry.com>

## Development Projects

### Portfolio

- <https://github.com/maxcarter/Portfolio>
- An online visualization of my resume presented as a personal website portfolio.

### REST-UP

- <https://github.com/maxcarter/REST-UP>
- A customizable PHP RESTful API and custom PHP Routing Engine.
- Designed to provide a quick set of tools for developers to quickly build their own backend API.

### Quick: The Agile Ticketing System

- <https://github.com/maxcarter/Quick>
- An intricate work-order, sprint planner, and issue-tracker ticketing system developed from scratch using the JavaScript MEAN development stack, designed to improve agile software development.

### Code-Bat

- <http://code-bat.com>
- A basic programming tutorial website designed and developed from scratch in High-School using HTML, CSS, jQuery and PHP.
- The site provides online tutorials, tips and tricks for various programming, and a place to experiment with new web technologies.

## Education

- Candidate for BAsC in Computer Engineering at the University of Waterloo, Waterloo ON (2018)
- Superior Heights C&VS, Sault Ste. Marie ON (2010-2013)
- Sir James Dunn C&VS, Sault Ste. Marie ON (2009-2010)

## Awards & Achievements

- President's Scholarship, University of Waterloo (Sept. 2013)
- Certificate of Excellence in Computer Science, Superior Heights C&VS (June 2013)
- Computer & Business Award, Superior Heights C&VS (June 2013)
- Ontario Scholar (High School Honour Roll Student)
- Bilingual Certification in French as a second language (June 2013)

## Extracurricular Activities

- Hockey, University of Waterloo Advanced Intramurals (2012-Present)
- Hockey, Sault Major Hockey Association (2009-2013)
- Hockey, Soo Pee-Wee Hockey Association (2001-2009)
- Music, Violin (1999-Present)
- Tennis