Maxwell Carter

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Overview 🔗

- **Excellent communication skills (English & French)**
- Over 5 years experience working with web technologies.
- Competent in various domains of software development.
- Experience developing RESTful APIs.
- Interested in Cloud Computing (IaaS, PaaS, SaaS).
- Intrigued by Artificial Intelligence and Deep Learning.
- Proficient with MacOS, Windows, and Linux.

Technical Skills 🔗

- **Front-End:** HTML, CSS, JS, jQuery, Angular, React, Vue
- **Back-End:** Node.js, Flask, PHP, ASP.NET, JSP
- **Programming:** Python, Java, C#, C++
- **Databases:** MySQL, Mongo DB, ElasticSearch
- **Storage:** Ceph, NFS, CIFS, VHDX
- **Cryptography:** Kerberos, RSA
- **Automation:** Docker, Jenkins, Ansible, Webpack

Experience

NVIDIA Software Engineering Intern   Santa Clara, CA USA, Sept. 2017 - Dec. 2017

- Built an automation system in Python for deploying Ceph virtual storage clusters in the NVIDIA GPU Network. The system provided a serviceable way to quickly create filesystem storage for hosting deep learning datasets.
- Worked with Kibana to visualize various key performance indicators for an NVIDIA GPU Network storage service. The dashboard provided improved metric visualization and introduced automated alerts for unexpected service behaviour.

NVIDIA Software Engineering Intern   Santa Clara, CA USA, Jan. 2017 - April 2017

- Developed a web service in ASP.NET that provided VHDX storage on demand. The service played an important role in enabling gaming platform streaming on the NVIDIA GeForce Now cloud gaming system.
- Built Kerberos as a Service using Pythonic RESTful API development. The service enabled Kerberos authentication cryptography in NVIDIA GPU Network storage systems.

SMART Technologies Software Developer Intern   Calgary, AB Canada, May 2016 - Aug. 2016

- Designed and developed an engaging educational game for SMART Boards using jQuery. The game placed first in the company wide intern project competition and was released to production as part of the SMART Learning Suite.
- Redesigned the SMART Lesson Activity Builder iOS native application for a new sign-in process. The application improved the connection experience for students joining a classroom activity from their mobile devices.

BlackBerry Software Development Student   Waterloo, ON Canada, Sept. 2015 - Dec. 2015

- Developed a consolidated messaging web application in AngularJS. The application reduced cycles and normalized communication in the BlackBerry Network Operations Centre.
- Created a scalable Model-View-Controller architecture for a PHP RESTful API. The architecture simplified various DevOps tool integrations for services across the BlackBerry Network Operations Centre.

BlackBerry Systems Software Development Student   Waterloo, ON Canada, Jan. 2015 - April 2015

- Created a data orchestration system in Python using automated workflows with various DevOps micro-services integrations. The system centralized service alert data and improved incident visibility and response time.
- Built an administration tool web application in AngularJS supported by a PHP RESTful API. The tool improved management of the BlackBerry Network Operations Centre's service monitoring wall.

2020 Technologies Front-End Developer Trainee   Montreal, QC Canada, May 2014 - July 2014

- Built a dashboard web application using the JavaScript MEAN development stack. The dashboard significantly improved the testing visibility for many aspects of industry leading interior design software.

Education

BASc in Honours Computer Engineering from the University of Waterloo, Ontario Canada (2018)