

Paul Motz
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paulmotz.github.io

Experience:

Software Developer

Prolexion, Waterloo, ON

May 2016-August 2016

- Built a proof of concept of a browser-based text editor that passed sentences as JSON to a web server for grammatical analysis
- Developed a user interface based on the previously built proof of concept to allow users to type sentences and receive grammatical feedback
- Front-end technologies used: JavaScript, jQuery, HTML, CSS
- Back-end technologies used: Node.js, Express.js, MongoDB

Designer

MTE Consultants Inc., Kitchener, ON

July 2013-April 2015

- Carried out the design of various structures on small and medium sized projects
- Modeled structures using engineering design software, quickly became comfortable using software to analyze buildings, bridges and structural components
- Completed construction reviews and building assessments

Business Intelligence Co-op

Miovision Technologies Inc., Kitchener, ON

May-August 2011

- Tested software as a member of the Quality Assurance team while working in an Agile environment and participating in daily stand-up meetings
- Developed dashboards that displayed company metrics using JavaScript, XML, XSLT, HTML and CSS
- Researched the issuing of Request for Proposals for traffic studies by American municipalities in order to evaluate the feasibility of a system of automated notifications

Education:

Bachelor of Engineering and Management, Civil

McMaster University, Hamilton, ON

September 2008-April 2013

- Completed a five-year Civil Engineering and Management program unique to McMaster that combined a full Civil Engineering degree with the core courses of a business degree
- Utilized Matlab, R and C# for coursework
- Named to Deans' Honour List, which requires a sessional average of 9.5 (roughly 80%) or above on McMaster's 12-point scale in my last two years of study

Independent Coursework

August 2013-present

Coursera.org, edX.org, Udacity (online course providers)

- Coursera: Algorithms I & II, Algorithms: Design and Analysis, Part 1, Machine Learning
- edX: Engineering Software as a Service, Introduction to Computer Science
- Udacity: Object-Oriented JavaScript, Data Visualization and D3.js

Technical Skills and Competencies:

- Languages: JavaScript (client side and Node.js), Python, Java, HTML, CSS, SQL, R, Matlab
- Frameworks and libraries: jQuery, Bootstrap, D3.js