# Daniel Robertson

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## WORK EXPERIENCE

**Catastrophe Modeling Application Developer,** Validus Research Inc., Waterloo, ON
September 2016 – December 2016

- Learned **Python**, **SQL**, and how to utilize a **REST** API, with **Flask**, on the fly
- Implemented a backend feature in **Python** that pulled industry and client data from from multiple **SQL** tables, and utilized **Pandas** and o**penpyxl** to export it to an Excel Spreadsheet for simplification
- Summarized client and industry data using **AngularJS** for Validus' proprietary modeling application, cutting analysis time for modelers
- Consulted and collaborated with team members, marketing, and support to develop an intuitive and user-friendly design for all features and fixes

**QA Analyst and Software Developer,** Microdea Inc., Markham, ON
January 2016 – April 2016

- Designed and developed the document annotation feature for the flagship web application using **AngularJS** & **Typescript**, achieving the company's first major milestone for the web app
- Evaluated and selected a canvas library to support the application
- Implemented an adapter to maintain cross-compatibility between new **JSON** data models and legacy XML data models using **C#**
- Self-taught testing methodologies and best practices to create over 500 unit tests with **NUnit**, **QUnit**, **dotCover**, and **Istanbul**

**Infrastructure Support Technician,** Shared Services Canada, Toronto, ON
May 2015 – August 2015

- Performed a DNS clean up and enabled scavenging for automated clean up
- Prepared new terminal servers for deployment within the company
- Performed administrative tasks such as creating new user accounts

## PROJECTS

**Personal Website,** *www.danrobertson.ca*

- Self-taught **HTML/CSS**, **JavaScript**, **Angular2**, and **LESS** to develop a portfolio website
- Actively learning design principles and techniques to incorporate into creating a responsive website

**Compiler**, 02247 – Compiler Construction, Danmarks Tekniske Universitet

- Used **C++**, **Clang**, and **LLVM** to design a compiler that performed analysis for null pointers in simple code, if statements, and loops

## INTERESTS

- Loves languages and seeing the world; went on Exchange to Denmark from January – June 2017 and visited 9 countries
- Blocks cross and hits middle with 10+ years of volleyball experience
- Played lead and supporting roles in multiple theatre productions
- Growing interest in biomedical field, genetics, machine learning, AI, and audio

## SKILLS

### Languages
HTML/CSS • LESS • JavaScript
TypeScript • Python • SQL • C • C#
C++ • Java • Assembly • Matlab

### Frameworks
AngularJS • Angular 2.0 • Flask
NUnit • QUnit

### Libraries
FabricJS • jQuery • Bootstrap
Pandas • openpyxl

### Environments
Windows • OSX • Ubuntu • Android

### Version Control
Git • SVN

## LEADERSHIP

**VP Communications**
Waterloo Engineering Society
*August 2016 – present*

**Orientation Week Leader**
University of Waterloo
*Fall 2015, 2016, 2017*

**Engineering Ambassador**
University of Waterloo
*September – December 2015*

**Former Lifeguard and Instructor**
YMCA Owen Sound
*August 2013 – August 2014*

## AWARDS

**UW International Experience Award**
University of Waterloo, 2017

**UW Global Experience Award**
University of Waterloo, 2017

**Schulich Leader Nominee**
The Schulich Foundation, 2015

**The Owen Sound Brick Brothers Award**
Owen Sound, 2015

**Presidents Scholarship**
University of Waterloo, 2015