

Daniel Robertson

University of Waterloo | Computer Engineering | dj2rober@edu.uwaterloo.ca | (519) 377-5953

WORK EXPERIENCE

Software Developer, Sortable, Kitchener, ON

January 2018 – April 2018

- Designed a script to analyze rules, for use with header-bidding library **Prebid**, leading to quantitative recommendations for simplification
- Utilized **Apache Spark** and **Scala** to process and interpret large datasets
- Consulted directly with a potential bidder client to facilitate and troubleshoot integration with Sortable
- Spearheaded data reconciliation by integrating various 3rd party APIs

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** pulling industry and client data from from multiple **SQL** tables, then utilized **Pandas** and **openpyxl** to process and export to an Excel Spreadsheet
- Summarized client and industry data using **AngularJS** for Validus' proprietary modeling application, cutting analysis time for modelers approximately in half
- 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
- 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

PROJECTS

Advanced Lower-Limb Orthotics, URA – University of Waterloo

- Researching and prototyping solutions for Drop Foot through the use of semi-active ankle foot orthotics, and modelling in **OpenSim**

Concussion Detection System, Fourth Year Design Project – University of Waterloo

- Researching methods of concussion detection, prevention, and baselining through the use of sensor networks, and data analysis

Personal Website, www.danrobertson.ca

- Self-taught **HTML/CSS**, **JavaScript**, **Angular2**, and **LESS** to develop a portfolio website while incorporating responsive design techniques

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 the biomedical field, genetics, machine learning, and AI

SKILLS

Languages

HTML/CSS • LESS • JavaScript
TypeScript • Python • SQL • PSQL
C • C# • C++ • Assembly • Matlab
Java • Clojure • Scala

Frameworks

AngularJS • Angular 2.0 • Flask
NUnit • QUnit • Apache Spark

Libraries

FabricJS • jQuery • Bootstrap
Pandas • openpyxl • Prebid

Environments

Windows • OSX • Ubuntu

LEADERSHIP

GradComm Directorship

Waterloo Graduation Committee
May 2018 – Present

VP Communications

Waterloo Engineering Society
August 2016 – December 2017

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