

PROFESSIONAL EXPERIENCE

Digital Archiving Assistant | University of Manitoba

Aug. 2019 - Present

- Greatly reduced amount of repetitive work to do for Archivists by analyzing potential work to be exploited by programming, and creating Python or PowerShell scripts to execute those tasks.
- Processed structured and unstructured data efficiently, using Python & PowerShell for CSV/Excel/Text, and FFmpeg & ImageMagick for processing audio/video/images.
- Learned WordPress on short notice and joined a dev team late to successfully finish and launch a public website announced on national television.
- Interacted and created code for open-source archiving software AtoM, as well as collaborated with AtoM devs to improve their public documentation.

Backend Web Developer | City of Winnipeg

May 2018 - Sep. 2018

- Added functionality to public water meter billing Web API using C# ASP.NET backend.
- Maintained automated email response web service to provide customers with a uniform experience.
- Created personal Powershell tools to halve the time required to edit text files in a SQL Database.
- Created and maintained SQL tables corresponding to changing requirements.

Frontend Web Developer | City of Winnipeg

May 2017 - Sep. 2017

- Created an Angular frontend for an internal city application in four months to successfully demonstrate the feasibility of using the framework for the city's public facing web apps.
- Wrote unit tests with Karma/Jasmine to verify application code.
- Discussed project progress daily with scrum team & project manager to ensure deadlines were met.

EDUCATION

University of Manitoba | Winnipeg, MB

Sep. 2014 - Jun. 2019

- **Degree:** B.Sc. in Computer Engineering (Software Engineering Focus)
- **General Course Work:** Web Programming, HTTP, TCP/IP, DNS, Good Coding Practices
- **Software Eng. Focus Work:** UX/UI Principles, Distributed Systems, Agile Principles, SQL Databases

SOFTWARE PROJECTS

UM Iris Website | Class: Human Computer Interactions

2018

- Focused on good UX practices to create a sample web app that created an enjoyable user experience.
- Used HTML5, CSS3, & JavaScript to build an application guided by input from user interviews, user surveys, brainstorming sessions, as well as paper prototypes.

TECHNICAL SKILLS

- **Web Technologies:** ASP.NET, Angular 4+, React, TypeScript, JavaScript, HTML5, CSS3, WordPress
- **OO Languages:** Java, C#
- **Scripting Languages:** Python, PowerShell
- **Version Control:** GitHub, GitLab, Git command line
- **Database Systems:** Microsoft SQL Server, SQLite