

# Andrew Xing

## Experience

### Software Developer – JSI Telecom

- Refactored major UI components of codebase from **Delphi** to **.NET** in a **MVVM** approach. Complex legacy classes were reused through COM callable wrappers
- Lead effort in improving **WPF** Telerik Radgridview performance by reducing initial load time by 70% with lazy loading (12s to 4s)
- Questioned sanity by implementing lazy loading manually with **Dapper** ORM with **SQL** offset-fetch, datagrid scrolling events and visually hacking the scrollbar to display position of scrollbar thumb in database
- Added toggling switch for datagrid lazy loading as a registry key

### QA / Software Engineer – Health Canada

Winter 2018

- Worked on **.NET** Microsoft Word extension that partially automates the government document screening and review process
- Created fully responsive intranet based project website from scratch with **media queries** and **Modernizr**
- Enabled full functionality of UI in 150% and 200% resolution screens

### Website Team – WATonomous

Fall 2018

- Worked in a small team to deliver a website for Waterloo's driverless car team @watonomous.ca. Built with **NodeJs**, **Express**, **Mongo** and **React**

## Projects

### Orchestra Online – UOttHack

- Created tool for users to play computerized instruments real-time with each other in private rooms using **NodeJs**, **Express**, and **Socket.io**

### Competitive Programming

- Wrote over 150 verified solutions to algorithm problems on DMOJ with **Python** and **C++** (data structures, graph theory, DP)

### Modulus1

- Imitated an automated room lighting system with LEDs and an open source microcontroller (Onion Omega2)
- Built alarm system using multithreading in **C++**, allowing asynchronous functionality between multiple alarms and the webcam motion sensor which turns on LEDs upon entering room

## Skills

### Languages:

HTML / CSS / JavaScript, NodeJs

C#, VBA, WPF, XAML

C++, Python, SQL, \*Mongo

### Libraries:

Express, socket.io

### Patterns:

MVVM, MVC, IOC, REST

### Tools:

Unity, Git, Linux, Visual Studio, \*Minecraft Forge, Photoshop, Canvas

\* - *Still getting there.*

## Achievements

2017 – Waterloo President's Scholarship

2017 – DELF French B1 Certificate

2017 – IB Diploma

2015 – RCM Grade 10 Piano

## Interests

Multiplayer game dev

Skiing & Basketball

Music – Piano, Guitar

Asserting dominance over little brother