**Alex Gallagher:**

**GIS Analyst**

(519) 619-5187 **|**  2542 Windsor St., Halifax **|**  agallagher55.wixsite.com/alexgallagher **|** agallagher55@gmail.com

**EDUCATION**



**Advanced Diploma in Geographic Sciences** May 2017

**Geographic Information Systems**

*Centre of Geographic Sciences*, *Nova Scotia*

**Bachelor of Science in Environmental Sciences** December 2015

**Minor in Geographic Information Systems, Honours**

*University of Guelph*



**ASSETS**

* Experience designing, developing, & maintaining corporate databases
* Working experience applying remote sensing techniques and interpreting aerial photography
* Experience generating reports from spatial queries and geographic databases
* Comprehensive working knowledge of ESRI products; ArcGIS, ArcOnline, ArcCatalog, & ArcPro
* Working knowledge and experience programming in Python, JavaScript, C#, SQL & CSS
* Researched & tested over 130 GIS web applications from municipalities across Canada



**PROFESSIONAL EXPERIENCE**

## **GIS Technician** January 2019 - present

**Halifax Regional Municipality** *Halifax, Nova Scotia*

* Managed, maintained, and updated the corporate serviceability database using ArcMap and database queries, providing weekly updates to existing records, and maintaining data quality standards
* Developed a field data collection procedure using ArcOnline and ArcCollector & integrated acquired data into the department’s GIS

## **GIS Analyst** June 2017 – October 2018

## **Eastlink** Halifax, Nova Scotia

* Managed, maintained, and updated the corporate serviceability database using ArcMap and database queries, providing weekly updates to existing records, and maintaining data quality standards
* Developed a field data collection procedure using ArcOnline and ArcCollector & integrated acquired data into the department’s GIS
* Generated weekly reports analyzing web app data using python’s Pandas module & esri’s python API
* Created detailed technical documentation and provided one-on-one training for the processes and software used to complete a variety of different GIS analyses, projects, and initiatives
* Exported GIS data from over 30 municipality GIS’ for use in our own geographic information systems
* Reduced duplication and data entry errors using python to ensure quality control
* Demonstrated knowledge of cartographic principles, design, and layout to create custom maps to meet the needs of corporate and business unit departments
* Applied remote sensing skills to interpret and analyze aerial photography for identifying road-networks and extracting building/property information
* Performed extensive data cleanup and database maintenance while fulfilling corporate standards, to geocode over 140 000 addresses of potential customers
* Analyzed company records and spatial information using ArcMap, AutoCAD’s SpatialNET, and Google Maps to supplement property research and determine serviceability of inquiring customers

## **Water Services Technician** May – September, 2016

## **Oxford County Municipality - Tillsonburg** Tillsonburg, Ontario

* Performed field work to acquire data for integrating utility design plans into a municipal GIS
* Produced high-quality, detailed drawings and sketches, mapping the location of underground water service lines, water mains, and water shut-off valves
* Used knowledge of maps & water services infrastructure to locate curb, hydrants, & water-system valves
* Executed quality control procedures to ensure the timely maintenance of municipal hydrants
* Participated in field checks and aided in emergency water-main breaks



**TECHNICAL SKILLS AND CERTIFICATIONS**

**GIS**

|  |  |  |
| --- | --- | --- |
| * ArcGIS | * ArcOnline | * ArcCatalog |
| * ArcPro | * ArcScene | * ArcInfo. |
| * Collector for ArcGIS | * ModelBuilder for ArcGIS | * QGIS |

**Programming**

|  |  |  |
| --- | --- | --- |
| * Python | * JavaScript | * C# |
| * SQL | * CSS & HTML | * Arc ModelBuilder |

**Database Management Systems**

|  |  |  |
| --- | --- | --- |
| * PostGreSQL * SQLite | * Oracle SQL Developer * SQL Server | * SQL\*Plus * MS Access |

**Esri Online Certificates**

|  |  |  |
| --- | --- | --- |
| * “Python Scripting for Map Automation” - 2018 | * “Basics of JavaScript Web Apps” - 2018 | * “3D-Analysis of Features & Surfaces using ArcGIS” -2017 |