

# Max Guo

Ottawa, Ontario, Canada



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## Summary

Computer science background, focus on GIS related business analysis, application development and system design.

Strong spatial data analysing and processing skills using Esri as well as Opensource technology

Knowledge with solution life cycle and understanding of high level system design.

## Experience



### GIS Developer

Esri Canada

Oct 2018 - Present (1 year 9 months +)

- Design and Develop web, mobile and desktop GIS solutions.
- GIS System Design
- GIS related Business Analysis



### GIS Developer

Lim Geomatics Inc.

Nov 2017 - Sep 2018 (11 months)

- GIS web and software developer
- Open Sourced GIS and ESRI Technology.



### GIS Consultant

Sole Proprietorship

Aug 2017 - Dec 2017 (5 months)

- Full-stack developer for Agriculture Canada Plant Disease Assessment GIS system .
- Design and implement system based on client requirements
- Writing System Documents

Languages: JavaScript, HTML, CSS, PHP, Python, SQL

Environments and Techniques : Linux(Ubuntu), AJAX, XML, REST, GDAL, jQuery, JSON, Semantics UI, WetKit, OpenLayers, Geoserver, WCS, WFS, WMS;



### GIS Developer

Agriculture and Agri-Food Canada

Jan 2017 - Jul 2017 (7 months)

- GIS system full stack developer.
- Spatial data process and analysis.

Languages: JavaScript, HTML, CSS, PHP, Python

Environments and Techniques : Linux(Ubuntu), AJAX, XML, REST, GDAL, jQuery, JSON, OpenLayers3,

Geoserver, WCS, WFS, WMS;

Spatial Data Analysis: ESRI ArcMap products and OSGO products (QGIS, SagaGIS, etc)



## GIS Analyst

Federation of Alberta Gas Co-ops Ltd.

May 2016 - Dec 2016 (8 months)

Chief Mountain Gas Co-op Ltd

Spatial Data Modeling for southern Alberta natural gas system with engineering team.

Data fusion and Integration.

Techniques: SQL, SpatiaLite, VB

Data Analysis: Bentley OpenUtilities products and OSGO products; Unify data from different data source including ESRI standardized shapefile data, powerdraft data and GPS data.



## GIS Analyst/ Developer

Agriculture and Agri-Food Canada

Sep 2015 - Dec 2015 (4 months)

Process and analysis of large soil raster data cross canada

GIS-related software developer.

Big data analysis using Apache Hadoop.

Environments and Techniques : Python, R, C#, Apache Hadoop, Ubuntu, xml.

Spatial Data Analysis: ArcGIS products and OSGEO Softwares (QGIS, SagaGIS,etc) and remote sensing programs, ENVI, PCI Geomatics. Lidar data QA and analyzing



## Geomatics Technician

Agriculture and Agri-Food Canada

Jan 2015 - Aug 2015 (8 months)

Canadian national crop inventory map project GIS-related software developer.

Spatial data analysis

Environments and Techniques : Python, R, C#, GDAL

Spatial Data Analysis: ArcGIS products and OSGEO Softwares (QGIS, SagaGIS,etc) and remote sensing programs, ENVI, PCI Geomatics. Lidar data QC and analyzing

## Education



### Carleton University

Certification , Full-stack Web Development

2020 - 2020

Six month, over 500 hours of intensive hands on coding experience.

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ES6+HTML5

NodeJS

ExpressJS

ReactJS

JestTesting

MySQL

MongDB

NOSQL

MERN-Stack

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## **The University of Lethbridge**

### **Bachelor's Degree, Computer Science and GIS**

2011 - 2016

Program is structured to provide a firm theoretical, technical and applied background in the geographical information sciences (GIS) that draws extensively on computer science foundations



## **Reutlingen University**

### **International Business/Trade/Commerce**

2013 - 2013

The time I spent in ESB business school has greatly improved my knowledge of lean management and understanding of financial challenges in the industrie

## **Licenses & Certifications**



**Xamarin Certified Mobile Professional** - Xamarin



**Certified ScrumMaster® (CSM®)** - Scrum Alliance



**CompTIA Network+** - CompTIA

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**ArcGIS Desktop Associate 19-001** - Esri



**ArcGIS API for JavaScript Specialty 20-001** - Esri



**ArcGIS Online Administration Specialty 19-001** - Esri

## **Skills**

ArcGIS • Python • PCI Geomatics • QGIS • C++ • Linux • SQL • C# • Hadoop • HTML