

# Ian Maher

GIS Specialist

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[Map Portfolio](#)

## WORK EXPERIENCE

### 3J Consulting, Beaverton — *GIS Technician* January 2024- Present

- Conducted spatial analyses and data creation using **ArcGIS Pro**, including parcel analysis, zoning overlays, and utility network updates to support civil engineering and urban planning projects.
- Designed and deployed custom **ArcGIS Experience Builder applications** and **ArcGIS Dashboards** to present planning data to both internal stakeholders and the public.
  - Supported county government during transition between **WebApp Builder** and **Experience Builder**, including developing a custom measure widget for surveyors.
- Established and managed **ArcGIS Online** environments for several municipal clients, including publishing feature layers, configuring data editing workflows, and coordinating data lifecycle management.
- Developed **Python scripts** using **ArcPy** to automate complex workflows such performing batch geoprocessing, and exporting complex water resources data, saving hours on common processes.
- Built and deployed custom web applications using the **ArcGIS JavaScript SDK**, enabling interactive public engagement for planning initiatives.
  - Developed an **ADA ramp inspection tool** and a **street sign inventory** applications with in-field data input and editing, reducing project timelines from six months to under two.
  - Built a **public input tools** for urban planning that featured simplified UX for residents to submit input on upcoming changes, including comprehensive plan and UGB expansions.

### Upwork, United States — *GIS Freelancer* September 2024- Present

- Delivered custom GIS solutions for clients in industries including **real estate**, **environmental monitoring**, and **non-profit conservation**.
- Built lightweight and responsive **React + ArcGIS JS SDK** web applications

### Upper Nehalem Watershed Council, Vernonia — *Internship*

- Mapped and analyzed **current and potential Coho salmon habitats** using government datasets, including **LiDAR** and **hydrography layers**, to support conservation and restoration planning.
- Performed **QA/QC** on biological and topographic data; maintained metadata and ensured compliance with internal and agency data standards.
- Created a public-facing **Esri StoryMap** and companion **data viewer app** to communicate habitat data to stakeholders, including government agencies, conservation partners, and the local community.

## EDUCATION

### Portland Community College, Portland, OR — *GIS Certificate*

JULY 2022- JUNE 2023

Attended courses in GIS Analysis, Remote Sensing, Drone Piloting and Data Capture, and Database Management.

### Oregon State University, Corvallis, OR — *Bachelor of Science*

SEPTEMBER 2012- DECEMBER 2016

Major in Zoology with a minor in Fish & Wildlife. Participated in a wide variety of research projects and laboratories.

## SKILLS

Software: ArcGIS Pro, Survey123, Experience Builder, ArcGIS Online & Enterprise, ArcGIS StoryMaps, QGIS  
Microsoft Office, Excel, and Access

Programming Languages: ArcGIS  
Javascript SDK, React, Python, SQL, R, Arcade

sUAS Platforms

## PRESENTATIONS AND CERTIFICATES

NWGIS Users Conference- OCTOBER 2024

GIS in Action Lightning Talk- APRIL 2023

Evolution Conference- APRIL 2022

Nehalem Basin Partnership Data  
Presentation- February 2024

Part 107 sUAS Pilot Certificate- APRIL 2023

DataCamp Intermediate Python for  
Data Scientists- MAY 2023

PADI Advanced Open Water Diving-  
OCTOBER 2014

## LANGUAGES

Traditional Chinese- upper  
intermediate

Spanish, French, Czech- intermediate