

Work Experience

Senior GIS Developer and Implementation Analyst at Juvare (Remote) October 2023-Present

- Developing Customized GIS Web maps using ESRI's JavaScript API

Senior Software Engineer at Epoch Solutions Group (Remote) April 2022-October 2023

- Implemented new state model in Epoch's web based scheduling application using Angular and Typescript
- Converted legacy ArcPy software suite to custom .NET API using Clean Architecture, CQRS, Generic repository, and Generic Unit of Work patterns.
- Supported multiple database platforms and writes stored procedures in t-sql, pl/sql
- Develops Features for the Epoch Field mobile application in Xamarin Forms for UWP and iOS

Computer Systems Analyst (CAGIS) at City of Cincinnati (Cincinnati, OH) July 2021-April 2022

- Developed custom web application portal using TypeScript and React for the Office of Constituent Affairs
- Developed Web APIs using C# and ASP .NET Core for document management workflows
- Created processing scripts to update parcel and asset data within multiple versioned GIS datasets

Senior Computer Programmer Analyst (CAGIS) at City of Cincinnati (Cincinnati, OH) Mar 2020-July 2021

- Independently developed software suite in python to manage, update, publish CAGIS GIS web services
- Designed APIs in ASP .NET for CagisOnline 2.0 and CagisDocs Online
- Created custom online GIS editing applications with the ESRI JavaScript API for various departments
- Developed version 2 of the "Fix it Cincy!" mobile application using Xamarin Forms for iOS and Android

Trainee/Assoc Geospatial Analyst at Las Vegas Valley Water District (Las Vegas, NV) Nov 2015-Feb 2020

- Implemented machine learning, digital image processing, and object detection algorithms in R (RGDAL) for feature extraction and classified land cover datasets
- Developed software in python to download time series climate data and perform statistical analysis
- Designed and Developed software in python to move large volumes of classified imagery into GIS datasets

Freelance Contracting Experience

Freelance Web Developer (Remote/Part-time) August 2023-Present

- Designing new company website for Northwest Dynamics, Inc to be mobile responsive and accessible

Full Stack Contractor at Proc9 (Remote/Part-time) January 2023-Present

- Architected python backend projects in FastAPI to allow for loose coupling and automated unit testing
- Developed method for automated integration testing using docker, postgres, and pytest

Education

Master of Science in Cartography and Geographic Information Systems
University of Wisconsin-Madison, Emphasis in GIS Software Development

August 2018

Bachelor of Arts in Geography (GISc Emphasis) and History Double Major
University of California, Santa Barbara, Graduated with Honors

June 2015

Skills

Languages: Python, C#, Java, R, JavaScript, TypeScript

Web Development: React, Angular 12+, Bootstrap, Dojo, Bootstrap

Software: Visual Studio, ArcGIS, ArcGIS Pro, Erdas Imagine, ENVI, Docker, Azure Devops, Jira, Gitlab

Databases: MS SQL Server, PostGresSQL, Oracle, SQLite

Operating Systems: Windows, MacOS, Linux, iOS, Android