



# MATTHEW CALLAHAN

Software Engineer | Phoenix, Arizona

## EDUCATION



**University of Wisconsin-Madison**

Bachelor of Science, Geographic Information Systems

## EXPERIENCE

### **Republic Services | Scottsdale, AZ | December 2018 – Present**

*Staff Engineer (management): May 2019 – Present*

- Lead a team of developers and testers by prioritizing tasks, delegating duties, and guiding projects to successful and on-time delivery.
- Provide mentorship and technical training to developers department wide.
- Established and implemented a standard application architecture for greenfield development, allowing developers to rapidly begin coding and reducing the time needed to deliver a minimum viable product.
- Implemented unit test standards for the team and led effort to increase test coverage in all applications, reducing the number of production bugs.
- Authored coding conventions and style guide documents for developers and currently leading effort to refactor all applications to follow these guidelines.

*Senior Developer: December 2018 – May 2019*

- Developed enterprise GIS web applications which provided customer data mapping and route visualization tools to assist in waste disposal operations.
- Developed APIs and services which provided data and analysis functions to other development teams and applications throughout the company.
- Supported desktop development for GIS data analysis and batch data processing.
- Implemented a Git branching strategy and code review process for all application repositories, increasing team throughput and code quality.

### **Carvana | Tempe, AZ | February 2018 – December 2018**

*Software Engineer*

- Primary job function was back end development to create and maintain the APIs and microservices which powered carvana.com using C#, .NET & .NET Core.
- Supported front end development to maintain and enhance a mobile responsive UI for vehicle inventory search engine (JavaScript ES6+, React & Redux).
- Implemented A/B testing to help drive data analytics and deliver the best UX.

### **CBRE | Tempe, AZ | March 2008 – February 2018**

*Application Developer: January 2011 – February 2018*

- Developed web applications which provided mapping, site selection, and data analysis tools for real estate brokers and their clients using ASP.NET MVC.
- Developed desktop applications for GIS data processing and analysis using C#, .NET, WinForms, MapBasic, ArcGIS Pro .NET SDK, and Python.
- Administered on-prem servers (Windows Server, IIS, SQL Server, ArcGIS Server).

*GIS Technician: March 2008 – January 2011*

- Developed scripts and desktop GIS tools to automate data analysis tasks.
- Created custom maps and market research reports for brokerage staff, affording them the ability to make well informed decisions and best serve their clients.

## ABOUT ME

My name is Matthew Callahan, and I am a player-coach in the software world: I enjoy writing code as well as leading my team and mentoring developers. I have over ten years of experience in software development and continuing to learn the ever-changing landscape of programming is my passion.

## CONTACT

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**Blog:** [seesharpdotnet.wordpress.com](https://seesharpdotnet.wordpress.com)

## CERTIFICATIONS

Microsoft Technology Associate:  
Developer

## KEY SKILLS

### Languages

C#, JavaScript, TypeScript, Python

### Frameworks

.NET & .NET Core, Node.js, Angular, React, ArcGIS

### Testing

NUnit, Jasmine, Mocha, Selenium

### Dev Tools

Azure, Git, GitHub Actions, Jenkins, Splunk, SQL Server