

# KATHERINE CLARK

Reston, VA

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## SUMMARY

Esri-certified GIS analyst looking to expand career into full stack GIS development. Highly motivated independent learner with meticulous attention to detail and a passion for leveraging GIS and web development to solve complex environmental issues. Looking for a role that will afford growth and to invest long term in an organization with a focus on mission.

## TECHNICAL SKILLS

**Esri Suite** ArcGIS Online, Enterprise Portal, Pro, ArcMap, Web App Builder, Experience Builder, Field Applications Suite

**API's/Extensions** ArcPy, ArcGIS API for Python, Spatial Analyst and 3D Analyst extensions

**Programming Languages/Tools** Python, Javascript, CSS, HTML, Git, node.js

**Productivity Tools** Microsoft Office Suite, GitHub, GitLab

## RELEVANT EXPERIENCE

### Geospatial Analyst III

Resource Environmental Solutions, LLC (RES)

2017-present

Warrenton, VA

Developed comprehensive field data collection workflows to bring the company up to modern digital data collection standards and efficiency using Esri software. Provided documentation and training for both technical and non-technical users on GIS applications and workflows.

#### Key Accomplishments:

- Awarded Innovative Leadership Program (ILP) funds to lead development efforts of a digital and semi-automated data collection system for the Texas Rapid Assessment Method (TXRAM) for streams and wetlands
- Established company-wide GIS data storage standards and organization
- Developed a Wetland Delineation Data Form application that matched and improved upon third party software alternatives, saving the company thousands of dollars annually on software licenses
- Developed a Prescribed Burn Plan application that improved company organization and efficiency. This resulted in some sites requiring fewer on-site inspections, saving both time and money for the company
- Developed a field data collection application and mapping automation tool which improved data accuracy, consistency, and efficiency for daily Port Miami turbidity inspection reports. These tools saved hundreds of man-hours and dramatically improved the quality of the product delivered to the client each week.

## ADDITIONAL EXPERIENCE

### Fish Ecology Lab Research Assistant

George Mason University

2015-2016

Fairfax, VA

Conducted field-work and laboratory analysis under the supervision of the fish ecology laboratory director. Primary work was focused on identifying larval, juvenile, and adult fish for tidal-freshwater community analysis.

## EDUCATION

### Full-Stack Development Boot Camp Certificate: University of Richmond *(virtual - in progress)*

A 24-week intensive program focused on gaining technical programming skills in HTML5, CSS3, Javascript, JQuery, Bootstrap, Node.js, MySQL, MongoDB, Express, Handlebars.js, and ReactJS.

### B.S. Environmental Science and Public Policy: George Mason University, Fairfax, VA

Concentration: Marine, Freshwater, and Estuarine Ecology

Summa Cum Laude graduate

Awarded the Outstanding Marine, Freshwater, and Estuarine Ecology Undergraduate Student Award