Bradley A. Andrick

Charlotte, NC | andrickba@gmail.com | uwandrick.github.io

Professional Experience:

| Senior IT Programmer Analyst (SWE) – Mecklenburg County, NC (Charlotte) |
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| Lead Software Engineer – Theorem Geo Inc |
| Programmer/Technology Solutions Administrator – ArborMetrics Solutions |
| GIS Coordinator – James Madison University (Facilities Engineering Dept.) |
| GIS Developer – James Madison University |
| GIS Technician – James Madison University (Facilities Engineering Dept.) |
| Teaching Assistant – James Madison University |
| Engineering and Planning Intern – Shentel (Telecommunications) |
| Education: |
| University of Wisconsin - Madison – Madison, WI |
| <u>James Madison University</u> – Harrisonburg, VA May 2014 |

B.S. Geographic Science | Minor, Environmental Science | Major GPA: 3.7, Overall GPA: 3.5

• Concentration: Environmental Conservation, Sustainability and Development

Conference Presentations:

"Using the ArcGIS JavaScript API in a Hybrid Geospatial Architecture"

Esri Developer Summit, Palm Springs CA (Virtual), 2021

Presentation note:

Bradley Andrick's presentation highlights the power of the ArcGIS API 4.x for JavaScript with GeoJSON data using the GeoJSONLayer class to satisfy a hybrid geospatial architecture requirement.

"Using Spatial History to Challenge the Exclusive Past"

National Council for Public History Conference, Baltimore MD, 2016

Presentation note:

Dr. Kevin L. Borg (Associate Professor, History) and **Bradley A. Andrick** (GIS Coordinator, Facilities Management) presented at the National Council for Public History conference. **Borg** and **Andrick's** project shows how spatial analysis can be within the reach of local historical societies and community groups.

"Designing a GIS for Campus: Planning, Development, and Maintenance"

Virginia Chapter of the Association of Physical Plant Administrators (VAPPA) Conference, Harrisonburg VA, 2016 <u>Presentation note:</u>

Brad Andrick, JMU & **Dale Abbott**, VHB – Discusses how JMU's Facilities Management Geographic Information System has progressed. Specifically; how it was started, where it currently stands, and where it is going. Additional topics will also include general GIS planning from a contractor perspective.

"Leveraging ArcGIS Online: Cloud Mapping and Mobile Phone Data Collection"

Regional GIS User Group Meeting, Harrisonburg VA, 2015

Presentation note:

Bradley Andrick presents on the use of mobile phone GPS data collection capabilities and current technology. Topics include history of mobile devices and GPS, cloud GIS software comparisons and how to leverage these technologies along with existing GIS infrastructure to lower costs and increase mapping capabilities.

Technical Skills:

| Geoprocessing and Spatial Analys | is Software and Development | Software (Cont.) |
|---|--|--|
| Geodatabase Management | ArcGIS – up to latest 10.x | Python Scripting, GDAL/OGR, ArcPy |
| Enterprise GIS Design | (ArcMap, ArcCatalog, ArcGIS Online, Model Buil | der, JavaScript, node.js, HTML, CSS, React |
| Web Application Development | ArcGIS Pro, ArcGIS for Server) | C# & .NET Frameworks, Java, Xamarin |
| Scripting – ArcPy, JS, SQL | AutoCAD – Civil3D MS | SQL Server/PostGRES-PostGIS/General DBMS |
| ArcGIS UI Customization | Trimble Access/ TerraSync | GitHub/GitLab/Versioning |
| Model Builder | Trimble Business Center/Pathfinder Office | Leaflet.js, Googlemaps API |
| GPS/Survey Data Collection | Mapcom Systems M4 | Openlayers API, Esri JavaScript API |
| Image Analysis | GoogleEarth/Maps Engine | FME Universal Translator |
| Cartographic Design | Boundless and QGIS | Adobe Illustrator/InDesign |
| Spatial and Statistical Analysis | Mapbox Studio and TileMill Sเ | urvey Grade Trimble GPS Units (Juno, Geo XT, |
| Coordinate Systems and Projection | s CartoDB + CartoDB.js | GeoExplorer 5, TSC2, TSC3, R8, R10) |

Community Service & Honors:

- GIS Consulting pro bono, Asheville Greenworks, Asheville NC, 2019
- Volunteer, Energy Savers Network, Asheville NC, 2018
- GIS Consulting pro bono, Friends of Connect Buncombe, Ashville NC, 2017
- Trail Maintenance Volunteer, JMU Geography Club, Harrisonburg VA, 2013
- Phi Kappa Phi, (Graduate Level Academic Honor Society) joined 2018
- Gamma Theta Epsilon, (Geography Honor Society) joined 2012
- Phi Theta Kappa Honor Society, (Associate Level Academic Honor Society) joined 2010