Bradley A. Andrick

andrickba@gmail.com | Charlotte, NC

Seasoned software developer with 6+ years completing projects in the Utility and Engineering Sectors | uwandrick.github.io

Professional Experience:

Lead Software Engineer – Theorem Geo Inc. .... July 2019 – Present
- Coordinated and lead development, enhancement and ongoing maintenance of software products
- Architected and executed migration from AWS to Google Cloud Platform of application infrastructure
- Designed applied machine learning applications to productize asset extraction and computer vision technologies
- Product owner for building a spatial video application system and lead product roadmap and re-design efforts

Programmer/Technology Solutions Administrator – ArborMetrics Solutions .... August 2016 – July 2019
- Software Developer: responsible for web and mobile platforms as well as backend architecture and design
- Developed software in .NET(C#), JavaScript, Python, SQL and the ESRI suite of GIS dev tools
- Business development support; on site customer visits, conferences, and consultations
- Project Management in support of AMS Technology Solutions development

GIS Coordinator – James Madison University (Facilities Engineering Dept.) .... June 2015 – August 2016
- Oversaw the University's Facilities Engineering Geographic Information System (GIS)
- Maintained, updated, and expanded the GIS capabilities of the department – planned an enterprise migration
- Researched and developed custom GIS applications, automation scripts, and mapping plugins-ins

GIS Developer – James Madison University .... May 2016 – August 2016
- Application design and development creating a responsive web app for visualizing History Department research
- Virginia Foundation for the Humanities – Grant supported, as Co-Principal Investigator

GIS Technician – James Madison University (Facilities Engineering Dept.) .... May 2014 – June 2015
- Managed and expanded GIS resources to facilitate geospatial analysis in support of engineering projects
- Collected and updated existing data using advanced survey grade GPS units (TSC3 and R10)

Education:

University of Wisconsin - Madison – Madison, WI .... May 2019
- **M.S. Cartography and GIS Development** | GPA: 4.0
- Concentration: GIS Development and Programming

James Madison University – 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

Skills:

Geoprocessing and Spatial Analysis	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 Builder,	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	Survey Grade Trimble GPS Units (Juno, Geo XT,
Coordinate Systems and Projections	CartoDB + CartoDB.js	GeoExplorer 5, TSC2, TSC3, R8, R10)