

Bradley A. Andrick

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Education

University of Wisconsin - Madison, Madison, WI

M.S. Cartography and GIS Development, May 2019

Concentration: **GIS Development and Programming** • GPA: 4.0

Topics include: Programming, Spatial Analysis Techniques for Development, UI/UX Design & Big Data

Visualization, Mobile App and Cloud Based Development, Real-World Integration

Skills: Full stack programming for the web, desktop, and mobile devices: Python, Java, SQL, NoSQL, GDAL, OGR, HTML, CSS, JavaScript, Bootstrap, ArcGIS APIs and SDKs, Leaflet, CartoDB, Mapbox, CartoCSS, D3.js, Illustrator

James Madison University, Harrisonburg, VA

B.S. Geographic Science, May 2014

Concentration: Environmental Conservation, Sustainability and Development

Minor: Environmental Science

Major GPA: 3.7 • Overall GPA: 3.5

Professional Experience

Programmer/Technology Solutions Administrator – ArborMetrics Solutions LLC, Asheville, NC August 2016 – Present

- Software Developer: responsible for web and mobile platforms as well as backend architecture and design
- Developed software in .Net(VB and C#), JavaScript, Python, Java, SQL and the ESRI suite of GIS dev tools
- Business development support; on site customer visits, conferences, and consultations
- Assisted with computer deployment; distribution, reimaging, reconditioning and technical support assistance
- Project Management in support of AMS Technology Solutions development

GIS Coordinator – James Madison University, Harrisonburg, VA 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
- Designed methods to distribute GIS data to Facilities staff
- Researched and code/developed custom GIS applications, resources, and capabilities

GIS Developer – James Madison University, Harrisonburg, VA May 2016 – August 2016

Virginia Foundation for the Humanities – Grant supported

- Developed and coded a mobile friendly web mapping interface (HTML, CSS, JavaScript) that allows patrons to view multiple georeferenced historical Sanborn maps overlaid on modern day imagery with independent opacity sliders
- Researched and provided guidance for all GIS related processes for the project duration

GIS Technician – James Madison University Facilities Engineering, Harrisonburg, VA May 2014 – June 2015

- Analyzed, managed and expanded GIS resources for Facilities Engineering
- Coordinated geospatial server initiative and began developing web mapping applications
- Collected and updated existing data using advanced survey grade GPS units (TSC3 and R10)

Skills

Geoprocessing and Spatial Analysis

Geodatabase Management
Enterprise GIS Design
Web Application Development
Scripting – ArcPy, JS, SQL
ArcGIS UI Customization
Model Builder
GPS/Survey Data Collection
Image Analysis
Cartographic Design
Spatial and Statistical Analysis
Coordinate Systems and Projections

Software and Development

ArcGIS – up to v10.5
(ArcMap, ArcCatalog, ArcGIS Online, Model Builder, ArcGIS Pro, ArcGIS for Server)
AutoCAD – Civil3D
Trimble Access/ TerraSync
Trimble Business Center/Pathfinder Office
Mapcom Systems M4
GoogleEarth/Maps Engine
Boundless and QGIS
Mapbox Studio and TileMill
CartoDB + CartoDB.js

Software (Cont.)

Python Scripting, GDAL/OGR, ArcPy
MS SQL Server/MySQL/General DBMS
JavaScript, JQuery, HTML, CSS, PHP
VB.NET and C# for .NET
GitHub/Versioning
Leaflet.js, Googlemaps API
Openlayers API, Esri JavaScript API
FME Universal Translator
Adobe Illustrator/InDesign
Survey Grade Trimble GPS Units (Juno, Geo XT, GeoExplorer 5, TSC2, TSC3, R8, R10)