

Brian Davidson

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Work Experience

July 2017 to Present: UX Engineer, Esri, Arlington VA – Create information architecture diagrams, user experience workflow diagrams, wireframes, proof-of-concepts, and interactive prototypes. Effectively communicate conceptual ideas, design rationale, and the specifics of user centered design process. Ensure consistency between the various customer-facing platforms created by Esri. Work in partnership with stakeholders, designers, and developers to design end-to-end experiences using participatory and iterative design techniques.

- Influence design decisions based on technical considerations.
- Successfully designed and developed multiple components in Ember.js.
- Prototype multiple designs to have a consistent charting experience across the platform.

October 2014 to July 2017: UI/UX Developer, DigitalGlobe, Herndon VA – Ensure all UIs are intuitive, beautiful, extensible, secure and reliable. Develop UIs using JavaScript libraries such as D3, Mapbox JavaScript APIs, jQuery, and Leaflet. Work with backend developers and data architects to design services that optimize UI experience and performance.

- White boarded and developed a new interface for large government contract.
- Developed a node.js application to help streamline process for creating browser certificates for users.
- Helped managers to delegate tickets out and assist in ticket completion to new employees.

September 2012 to August 2014: Cartographer, UW Cartography Lab, Madison WI – Work directly with clients to create maps to appropriate specifications. Organize layers received from clients using ArcGIS 10.1, Adobe CS6/CC. Design, organize, and research data for map production.

- Project lead on statewide government contract for 2 years from design to delivery.
- Expanded cartographic knowledge by working with cutting edge technologies.
- Provided assistance and mentorship to new cartographers entering the lab as well as new graduate students.

September 2013 to August 2014: Teaching Assistant, University of Wisconsin–Madison, Madison WI – Lead lab exercises based on a real-world problem throughout the semester. Assisted students with questions or problems while completing lab tasks. Sat in on lectures to be available to students and be up-to-date on lecture topics in class. Grade lab submissions and provide useful feedback.

- Helped to develop current curriculum and lab exercises to be current with mapping technologies.
- Provided students with prompt feedback and assisted in day-to-day tasks when available.
- Won Olmstead Departmental Award for Outstanding Teaching Assistant for the 2013-2014 school year.

September 2011 to May 2012: GIS Analyst, Gills Creek Watershed Association, Columbia SC – Collect data for use in mapping. Analyze and organize layers received from local government. Create static and dynamic maps for educational use.

- Designed maps to educate public on where access points are available for walking and biking trails.
- Influenced cartographic direction for styling and maps created.

February 2011 to October 2011: Undergraduate Assistant, University of South Carolina Geography Department, Columbia SC – Mosaic images together using ERDAS 2011. Analyze and rectify aerial photo data from The Yuba Valley in California. Digitize contour lines in the Yuba Valley.

- Assisted in streamlining research process by quickly and accurately digitizing data and rectifying aerial images.
- Provided detailed write-up of data used and where it was collected from for the research documentation.

Education

University of Wisconsin, Madison, WI: Masters of Science in Cartography/GIS

- Graduated August 2014
- Successfully defended graduate thesis on mobile cartography in June 2014

University of South Carolina, Columbia, SC: BA in Geography with an emphasis in GIS

- Graduated May 2012 – Magna Cum Laude
- Received the Donald O. Bushman Award for Outstanding Cartography in the 2010-2011 school year.