

Benjamin Schroeder

Web & Software Developer — 9 years of experience

btpschroeder@gmail.com benschroeder.com linkedin.com/in/ben-schroeder

Experience

Esri *Redlands, California & Washington, D.C.*
Lead Front-End Developer, ArcGIS Analytics for IoT *March 2019 – present*

- Act as primary front-end developer contact for product owner and stakeholders of ArcGIS Analytics for IoT—a new SaaS offering from Esri allowing users to ingest, analyze, and visualize real-time feeds and big data.
- Architect and develop the ArcGIS Analytics for IoT web application (React, Redux, TypeScript), implementing solutions an enterprise-level product demands—e.g. authentication, integration with the ArcGIS ecosystem, and unit testing.
- Lead a team of seven other developers, conducting regular stand-ups and working with the product owner to plan iterations and distribute tasks appropriately.
- Established team-wide development practices, such as utilizing Git flow and Agile methodology, that have since been wholly adopted by the larger real-time GIS team.
- Oversee in-person holistic testing sessions, synthesizing stakeholder feedback on the application's UI.
- Give technical presentations internally and at conferences. Past topics include *The Modern Web* and *Front-End Testing*.

Software Development Engineer, D.C. Intelligence Services *June 2017 – March 2019*

- Developed web-based GIS solutions for federal government clients suited to their unique circumstances, e.g. disconnected environments, security protocols, and budget constraints.
- Utilized a diverse set of languages (JavaScript, C#, Java, Python) and technologies (Apache Tomcat, Windows IIS, Node.js Ember, various ArcGIS software) conducive to each individual project.

Wisconsin State Cartographer's Office *Madison, Wisconsin*
Web Developer *June 2016 – May 2017*

- Lead the complete back- and front-end overhaul of the Wisconsin Catalog of Aerial Photography, working closely with the Robinson Map Library and statewide government agencies to provide an ideal user experience.
- Undertook self-directed learning of the PHP Data Objects (PDO) extension, parameterized SQL queries, and the Google Maps JavaScript API.

American Geographical Society Library *Milwaukee, Wisconsin*
Intern *January 2016 – May 2017*

- Produced web-based tools and tutorials for patrons of all skill levels, empowering them to leverage geospatial technology with an emphasis on accessibility, open-source software, and open data.

University of Wisconsin–Milwaukee College of Letters & Science *Milwaukee, Wisconsin*
Advanced Student Web Developer *September 2011 – June 2016*

- Maintained websites for the College of Letters & Science, including those for its 25 academic departments.
- Worked directly with L&S faculty to build websites catered to the needs of their individual programs.

Skills

Languages	JavaScript (ES6+), TypeScript, HTML/CSS, Python, C#, Java, ColdFusion, PHP
JavaScript	React, Redux, Angular, Ember, Vue, Node.js, Dojo, webpack, web mapping
Cloud & Data	Amazon Web Services (AWS), Microsoft Azure, MongoDB, SQL, data formats such as XML and JSON
Development	Responsive design, accessibility, usability/UX, build tools (e.g. Jenkins), version control (Git/SVN), technical writing, team leadership
Spoken languages	English (native), German (proficient)

Education

University of Wisconsin–Milwaukee Geographic Information Systems graduate courses (non-degree)	<i>Milwaukee, Wisconsin</i> <i>September 2015 – May 2017</i>
University of Wisconsin–Milwaukee B.A., Urban Studies (minors in German and Geography)	<i>Milwaukee, Wisconsin</i> <i>May 2015</i>
Johann Wolfgang Goethe-Universität Frankfurt am Main Undergraduate Study Abroad	<i>Frankfurt, Germany</i> <i>Summer 2014 Semester</i>