Patrick Smyth

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Education

M.S. in GIS & Web Map Programming
University of Wisconsin-Madison, Madison, WI
Completion Date: 08/2018

M.S. Environmental Studies
University of Utah, Salt Lake City, UT
Thesis: A Narrative Atlas of the Anthropocene
Completion Date: 05/2015
GPA: 3.98

Technical Certification, Applied GIS
University of Utah, Salt Lake City, UT
Capstone Project: Development of Monitoring Geodatabase for
the U.S Forest Service Geospatial Technology Center
Completion Date: 05/2014
GPA: 3.96

B.A. History, 05/2009
University of Notre Dame, Notre Dame, IN
Disciplinary Focus: Environmental History
Graduation Date: 05/2009
GPA: 3.50

Professional Experience

Senior Web GIS Application Manager, The Trust for Public Land, Santa Fe, NM 06/2016 – Present
- Responsible for managing the project life cycle of all GIS web mapping applications including scoping, design, development, testing, deployment and management
- Develop and maintain client web applications and services with JavaScript, HTML, web scripting and SQL programming. Manage GIS databases and services to support web mapping applications. Design and create wireframes, mockups, and prototypes to demonstrate concepts.
- Administer and maintain ArcGIS for Server platform. Interact with ArcGIS Server and Python APIs. Manage and configure IIS web server. Create and maintain technical specifications for web-based products and services.

GIS Analyst, The Trust for Public Land, Santa Fe, NM, 07/2015 - 06/2016
- Implementation and design of ParkServe, the nation's first spatial database, clearinghouse and interactive web platform for urban parks
- Coordination and management of large-scale data collection and deployment of automated storage/processing procedures
- Stand-up, administration and automation of enterprise-level spatial databases in SQL Server and ESRI multiuser editing environments

GIS Contractor, The Trust for Public Land, Salt Lake City, UT, 01/2015-05/2015
- Prepared Conservation Easement Baseline Analyses for multiple properties
- Performed all GIS/GPS (field collection, desktop post-processing, map production) and inventory work for numerous properties, saving TPL the time and expense of contracting for individual components

GIS and Database Intern, The Bureau of Land Management, Salt Lake City, Utah, 05/2014 – 01/2015
- Worked extensively with Natural Resource and GIS staff in development of geospatial database and web application to assist in completion of Lands with Wilderness Characteristics inventory process
- Acquired and implemented full-stack web development skills to design front-end user interface for Wilderness Characteristics Inventory web-application

Technical Skills

D3, Leaflet, Mapbox, ArcGIS API for JavaScript, Dojo

HTML5, CSS, JavaScript, Bootstrap framework

Python Scripting, Automation, API interaction

Cartographic Workflows in Illustrator and Photoshop

ArcGIS suite (Map, Catalog, Scene), ArcSDE, ArcServer and Portal

Microsoft SQL Server , PostgreSQL/PostGIS

References

Emmalee Dolfi, Sr. Manager
Trust for Public Land
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Dr. Ian Muehlenhaus, Director of GIS and Online Map Programming
University of Wisconsin-Madison
Department of Geography
550 North Park Street
Madison, Wisconsin 53706
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Dave Highness, President
Async GIS
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