

Joshua Tanner

Geospatial Web Developer , GISP, MGIST

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Summary

Innovative software engineer offering nine plus years experience in Web development and GIS involving full software development lifecycle. Utilizes highly attuned analytical skills to develop effective solutions that employ cutting-edge technologies. Consistently drives high standards of service through effective project management, communication, and strategic planning to develop sustainable and robust applications. Highly organized with strong capacity to prioritize workload, delegate deliverables, and steer project completion within established deadlines. Creative problem solver and experience in designing software solutions for complex geospatial applications for the web, desktop and mobile platforms.

Work experience

GIS Analyst / Web Developer

2014 - Present

State of Oregon Geospatial Enterprise Office

Successfully led complex software development projects to support enterprise GIS and IT for the State of Oregon. Managed state software enterprise agreements and provided guidance as SME to all state agencies in GIS web development projects.

- Managed state web GIS platform (ArcGIS Online) and provided support for custom development and general web mapping.
- Scoped, developed, and delivered web applications for various state agencies that lacked internal capabilities and experience. Attained knowledge of various languages, frameworks, ecosystems, processes, and networks.
- Used ReactJS to build modular and maintainable components for web applications.
- Worked with local governments to improve their GIS data and development processes.
- Presented at various GIS conferences for current best practices in Web and GIS development.
- Negotiated Statewide ELA for all GIS software used at the State of Oregon.
- Developed algorithms for reducing data redundancy and versioning.

Web Application Developer / GIS Programmer

2012 - 2014

National Oceanic and Atmospheric Administration

Acted as lead developer and geospatial subject matter expert for innovative and intuitive web applications to support a wide range of coastal management issues. Worked with NOAA, BOEM, USGS, and other federal agencies to design and build applications in a team environment.

- Built web applications with Bootstrap and AngularJS to create responsive interfaces with maintainable software design patterns.
- Worked with database team in developing web services to talk to front end applications.
- Led presentations to federal staff to educate them on development technologies and processes.

GIS Technician / Application Developer

2009 - 2012

City of Charleston, South Carolina

Built web applications and automated internal processes to support the City of Charleston's planning and zoning departments.

- Developed web application 'MapNet' to connect public citizens with cadastral and city service data using Esri's JS API and general HTML/CSS/JavaScript technologies.

Core Competencies

- DevOps
- GIS Analysis
- UI / UX
- Web Development / Engineering
- Leadership
- OOP and Design Patterns
- Open Source
- Training & Mentoring
- Budget Management
- Project Management
- Public Speaking
- Version Control

Skills

Front End Development



HTML5, CSS3, JavaScript

JavaScript Frameworks



ReactJS/Redux, Backbone, Ember, AngularJS 1.x, Aurelia, Vue.js

Web Development



Ruby on Rails, NodeJS, PHP, .NET

DevOps



AWS, Heroku, Digital Ocean, Netlify

Languages



Python, Java, Ruby, C#.NET, PHP

GIS Tools



ArcGIS, FME, GDAL, JTS, TurfJS, QGIS

Mapping API's



OpenLayers3, Leaflet, Esri JS API, Mapbox, CartoDB

- Successfully automated internal workflows using Python.
- Developed application written in PHP to manage and provide public access to city bicycle infrastructure.
- Assisted the Navy Blue Angels in air show flight planning through GIS analysis.

GIS Developer Internship 2007 - 2009
Richland County, South Carolina

Research Assistant 2006 - 2007
University of South Carolina Geography Department
NOAA / NASA grant funded work studying intertidal zone on California coast.

Education

Masters of Geospatial Information Science and Technology 2012 - 2015
North Carolina State University
4.0 GPA

B.S. Marine Science 2003 - 2008
University of South Carolina

Coursework in Computer Science 2008 - 2009
Midlands Technical College - Columbia SC

Volunteer

Web Developer 2016 - Current
GIS Corps
The GIS Corps provides support for geospatial projects around the globe. As a GIS Corps volunteer, I work with a project called the Compassion Games, which ignites competition around the act of compassionate acts.

Steering Committee Member 2017 - Current
National States Geographic Information Council
The Geo-Enabled Elections project was created to strengthen the accuracy and reliability of America's electoral system by integrating GIS into state voter registration systems.

Startup Projects

Founder and CEO 2016 - Current
MapperKeeper
MapperKeeper is an online web mapping application to allow journalists to build and share location information faster. It was built with Ruby on Rails, ReactJS, and runs on Heroku and AWS. <https://www.mapperkeeper.com/>

Founder and Engineer 2015 - Current

Databases

PostgreSQL, SQL Server, SQLite, MySQL, MongoDB

Awards

Phi Kappa Phi Honor Society for Masters Degree

Excellence in Innovation Award from the National Oceanic Atmospheric Administration (NOAA) for software development

2014 Esri Developer Conference Hackathon (3rd Place)

2015 Esri Climate Resilience Hackathon (Honorable Mention)

VisualLoop.com - Top 50 Environmental Visualizations of 2015 for National Parks Viewer

2017 HackTheDot Hackathon Winner - Sponsored by Name.Com

Code Samples

<http://github.com/tannerjt>

<https://www.mapperkeeper.com>

<https://coast.noaa.gov/digitalcoast/tools/flood-exposure.html>

<http://tannergeo.com>

References

Available upon request

TannerGEO LLC

TannerGEO LLC specializes in custom software development, cartographic design, and GIS analysis. <https://tannergeo.com/>