

# RICK SPITZER

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Portfolio: <https://pspitzer86.github.io/>

## SUMMARY

Geographic Information Systems Analyst with expertise in utilizing ArcGIS and related programs to collect, interpret, and edit data. Trained in manipulating tabular, structured, and raw data, and summarizing, joining, and linking related data in software such as Excel and Tableau. Adaptable and able to master new skills quickly with an exceptional ability to recall information. Skilled in scripting/application development utilizing SQL, Python, Javascript. Looking to move my career toward data science and visualization, transforming data into creative business insights for companies with big ideas.

## TECHNICAL SKILLS

**Tools:** Tableau, Excel, Python, Javascript, Pandas, Matplotlib, SQLAlchemy, Web Front End, D3, Plotly, Flask, Leaflet, JSON, Splinter, Requests, Beautiful Soup, ETL, Machine Learning

**Databases:** PostgreSQL, MongoDB

## PROJECTS

**Wine Quality Prediction** - <https://ucsd-winequality.herokuapp.com/>

- 4-person project using the UCI machine learning wine quality dataset to create an interactive app for prospective winemakers to test expected wine quality based on physicochemical components.
- Responsible for introduction verbiage, correlation visualizations, web page manipulation.
- Javascript, Plotly, Flask, HTML/CSS

**Interactive Earthquake Activity Map** - <https://pspitzer86.github.io/Leaflet-Challenge/Leaflet-Step2/>

- Interactive map of the last 30 days of earthquake activity using current USGS data.
- Responsible for all functionality.
- Javascript, D3, geoJSON API, Leaflet, Mapbox, HTML/CSS

**Interactive US Census Plot** - <https://pspitzer86.github.io/D3-Challenge/>

- Interactive scatter plot with multiple, changeable axes comparing health risk factors.
- Responsible for all functionality
- Javascript, D3, HTML/CSS

**Belly Button Diversity Dashboard** - <https://pspitzer86.github.io/Plot.ly-Challenge/>

- Interactive dashboard visualizing subject data from a study looking into bacteria types present in navel samples.
- Responsible for all functionality
- Javascript, Plotly, D3, HTML/CSS

## EXPERIENCE

### **GIS Property Analyst Maricopa County Assessor's Office**

Feb 2019 – Present  
Phoenix, AZ

#### *Key Accomplishments:*

- Employed ArcMap/ArcPro and data organization programs to maintain a digitized parcel fabric of property ownership and property transfers throughout Maricopa County, the most populated county in Arizona.
- Processed recorded deeds dealing with ownership transfer and parcel splitting in order to maintain an accurate history of previous and current title owners for all taxable land.
- Digitized subdivisions from recorded plats to be joined to the fabric to eventually be sold by the owners.
- Communicated with customers to ensure parcel accuracy from surveys and property transfers and corrected any issues to ensure accurate ownership and parcel dimensions in the county assessor's office database.
- Executed a fabric clean-up pilot project looking into and fixing errors in the parcel fabric to diagnose the need for a dedicated fabric clean-up team.

### **GIS Technician Contractor Apple (Apex Systems, Inc.)**

Nov 2017 – Nov 2018  
Sunnyvale, CA

#### *Key Accomplishments:*

- Applied editing tools in Apple's proprietary ArcGIS/ArcFM program and various databases to create and maintain maps and GIS spatial data for the Apple Maps iPhone Application on their Transit team.
- Digitized and edited transit features (stations, ferries, rail line) for various locations around the world using general GIS principles and concepts.
- Created data files using SQL queries to facilitate data analysis.
- Used QGIS software to create shapefiles of GIS datasets for organization, presentation and assignment distribution.
- Oversaw and prepared projects for local GIS team and outsourced team in Hyderabad, India.

## EDUCATION

### **Data Science and Visualization Certificate: University of California, San Diego, San Diego, CA**

A 24-week intensive program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning

### **Bachelor of Science, Geology: Arizona State University, Barrett Honors College, Tempe, AZ, May 2017**