

Austin Santamaria

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Portfolio: <https://austins016.github.io/Portfolio/>

EDUCATION

University of Washington, Tacoma, WA

2021 Graduate

- M.Sc. Geospatial Technologies
- GPA: 3.98

Western Washington University, Bellingham, WA

2019 Graduate

- B.A. Geography - Certificate in Geographic Information Science - Minor in Spanish

WORK EXPERIENCE

Weyerhaeuser

Seattle, WA

Data Analyst Intern - Advanced Forestry Systems

July, 2021 - November, 2021

- Created **LiDAR** dataset for training/testing of models; maintained and updated documentation using **GitLab**
- Leveraged **Python** to implement and test models from **R** package; interpreted peer reviewed journals to select model parameters

City of Redmond

Redmond, WA

GIS Data Technician Intern - Technology and Information Services

August, 2019 - November, 2019

- Utilized ArcMap to digitize park assets with a **coded domain**; used aerial imagery and other online sources as references
- **Geo-referenced** different pdf maps of cable service areas to analyze discrepancies between map areas

SIGNIFICANT PROJECTS

WDFW Salmon Return Data Analysis (Python, JavaScript, HTML, CSS)

July/August, 2021

- Derived temporal and population trends of different salmon species using **Pandas**, **Numpy**, **Sklearn**
- Analyzed relationship between salmon returns and river levels/precipitation using **Scipy**, **Sklearn** then used **Facebook Prophet** forecasting model to predict salmon returns using river levels
- Visualized results on **Github Pages** using **Mapbox GL JS**, **D3.js** and **Charts.js** as well as depicting river conditions/weather forecasts via **API** connections

Map-Centric, SQL-Based Data Collection Tool (Javascript, HTML, CSS)

February, 2021

- Built data collection form framework using **Leaflet.js**, **Leaflet.draw**, HTML form
- Configured database using **CARTO** to store and retrieve data via JavaScript, HTML and **SQL**
- Used **Apache Cordova** to wrap application to launch as an **Android App**

Delivery Area Service Tool (Python, Javascript, HTML, CSS, ArcGIS)

May, 2021

- Formatted, cleansed and geocoded county parcel data using **Pandas**, **ArcGIS Pro**
- Developed tool to show parcel count for hypothetical service area **Turf.js**, Mapbox GL JS

Soccer Player Origin Map (Python, Javascript, HTML, CSS)

September, 2021

- Applied lat/lon geocoding to birthplace dataset with city, country locations using **Geopy**, **Geopandas**
- Solved visual issue of overlapping points by programmatically modifying them using Python, **Numpy**
- Created replicable web-mapping framework to display custom icons using Mapbox GL JS

SKILLS

Languages: 2 years Python, 1 year JavaScript, HTML, CSS

Technologies: Github, Gitlab, Jupyter, Atom

GIS: ArcGIS Pro, ArcMap, QGIS, Leaflet.js, Mapbox GL JS, Turf.js, ArcGIS API for JavaScript, Arcpy, ArcGIS API for Python, Geopandas, Plotly