Caroline Glazer

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Data analytics engineer with over 3 years experience building and optimizing data pipelines using SQL, Python, Snowflake, dbt, and Airflow. Background in geospatial analysis with open-source GIS tools, including PostGIS, GDAL, Google Earth Engine, OpenStreetMap, and Leaflet.

Professional Experience

Starry, Inc | Boston, MA (remote)

Senior GIS Analyst Mar 2022 - Present

- Work cross-functionally with data analytics and engineering teams to build and maintain relational databases and ETL pipelines in dbt, Airflow, PostgreSQL, and Snowflake and identify opportunities for optimizing SQL performance in existing pipelines.
- Create and maintain "predicted serviceability pipelines" in dbt and Airflow to translate viewshed analyses and radio signal propagation geotiffs into actionable address-level serviceability predictions and provide property-level fiber feasibility based on parcel-fiber proximity.
- Designed and built candidate site feasibility and acquisition pipeline using Jupyter Notebooks and Looker. This improved process increased site approvals from ~2 to ~20 per month, allowing new market network planning to take place over months rather than years.
- Build tooling to automate geocoding and de-duping of address data via third-party APIs (Google Maps and Smarty), reducing analyst hours spent on address database maintenance by 75%.

GIS Analyst Oct 2020 - Feb 2022

- Conduct analyses and produce reporting for both technical and non-technical audiences using SQL in various environments (Looker, Snowflake) - e.g. to communicate effects of changes to serviceability prediction models, measure feasibility of external partnerships to national markets, provide go-to-market reporting.
- Source free, publicly-available parcel, building, and address datasets to create comprehensive property reference databases for Starry markets. Equivalent products are valued at up to $250k/year. Contribute to ongoing updates and maintenance of these databases.

Jasper Ridge Biological Preserve | Woodside, CA

GIS Data Analyst Nov 2019 - Oct 2020

- Manage storage and maintenance of spatial datasets for use in a Social-Ecological Health Assessment of the Santa Cruz Mountains Stewardship Network region.
- Use ArcGIS Pro, AGOL, Google Earth Engine, OSM, and Postgres/PostGIS to developed GIS layers, user applications, databases, and print materials to organize and display data related to the ecological health of the region.

Personal Projects

Every Single Route | https://everysingleroute.appspot.com/ Feb 2020 - Mar 2020

- Designed and built a web application that allows a user to visualize up to 50 GPX activity files from Strava on a single map. The app is built in Python Flask running on GCP App Engine and sources GPX files via oauth2 authentication with Strava's API. Mapping/visualization is done with the Leaflet Javascript library and all other front-end elements are built in HTML and CSS.
- Concept inspired by ultrarunner Rickey Gates' "Every Single Street" project, source code here.

California Explorer Search and Rescue | GIS + Design Projects May 2018 - Dec 2021

- Produced technical cartographic products for overland navigation training (sample here), and other training materials, using GDAL, ArcGIS Pro, and Adobe InDesign and Illustrator.
- Cal-ESAR responds to searches and other emergencies throughout Northern California and is a resource of the Governor's Office of Emergency Service.

Skills

Programming Languages: SQL (PostgreSQL/PostGIS); Python (incl. libraries: pandas, geopandas)
Tools/Platforms: dbt; Airflow; QGIS; ArcGIS Pro and ArcGIS Online; Looker; Jupyter; GDAL; Google Earth Engine; Leaflet; Open Street Map and tools; Adobe Photoshop, InDesign, Illustrator, and Premiere; Google Cloud Platform (esp. App Engine, Google Maps APIs)

Education

Foothill College | A.S. in Geographic Information Systems 2019 - 2020
Carleton College | B.A. in Linguistics, B.A. in Music 2013 - 2017