



# Adrian Ferrar

Geospatial professional specializing in GIS, programming, and asset management. Experienced problems solver, data pipeline creator, web maps author, and citywide initiative collaborator.



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New York, NY

## Work Experience

### GIS Specialist

#### NYC Department of City Planning

October 2018 – Present

- ❖ Develop data pipelines for distribution of products within agency's internal and external platforms.
- ❖ Datasets include: LION, MapPLUTO, Digital City Map (DCM), Zoning Features, E-Designations, Mandatory Inclusionary Housing (MIH), Building Footprints, Digital Tax Map (DTM), and more.
- ❖ Audit and maintain agency platforms and data quality compliance in accordance with open data mandates. Over 500+ internal and publicly facing datasets.
- ❖ Upgraded agency's ESRI infrastructure and developed recurring maintenance procedures to improve database render performance by 43%.
- ❖ Developed internal SDE monitoring process to track, visualize, and report SDE usage.
- ❖ Developed custom ESRI License Manager portal to allow users to view license availability and request access from others.
- ❖ Maintained updates to The Guide to Planning Resources (internal web platform for sharing data resources across divisions) through combination of Microsoft SharePoint, ArcGIS Hub, ArcGIS Online, and Github platform management.

### GIS Aide

#### NYC Department of Transportation

January 2017 – June 2018

- ❖ Increased data workflows through development of scripted pipelines for updating street asset records in server data stores.
- ❖ Contributed to development of citywide predictive Street Deterioration Model using R, SQL, and Python.
- ❖ Analyzed historical commitments for all DOT bridge, street, and facility assets to spatialize and report on funding patterns across various political boundaries.
- ❖ Managed collection and digitization of all NYC street ownership records. Worked in collaboration with Department of City Planning and respective Borough President's Topography Departments.
- ❖ Developed QA process for evaluating digitization metrics.

## Technical Skills

**Operating Systems:** Windows, Linux, MacOS

**Version Control & Project Management:** Git, GitHub, ZenHub

**Databases:** ArcSDE, PostgreSQL/PostGIS, Microsoft SQL Server

**Languages:** Python, SQL, HTML, CSS, JavaScript, R

**Development Environments:** Microsoft Visual Studio Code, Pycharm, JupyterHub

**Libraries & Platforms:** ArcGIS Online, ArcGIS for Developers, ArcGIS Pro SDK, ArcGIS Hub, ArcPy, DigitalOcean, Carto, Leaflet, Mapbox, Cesium, GDAL, Docker, Pandas, NumPy

**Software:** ArcGIS Desktop Suite, ENVI, QGIS, Tableau, Microsoft Teams, Microsoft SharePoint

## Interests



3D Printing



Biking



Cooking



Homelab



Pets

## Education

### Hunter College

#### M.S. in Geoinformatics

Graduated May 2018

- ❖ Quantitative Methods in Geography
- ❖ Advanced GeoVisualization
- ❖ GeoComputation II
- ❖ GeoComputation I
- ❖ GeoWeb Services

- ❖ Extending ArcGIS Pro w/ Add-Ins
- ❖ Remote Sensing of Environment
- ❖ Urban Applications of GIS
- ❖ Database Modeling
- ❖ Advanced GIS

### The City College of New York

#### B.S. in Earth System Science

Graduated May 2014

- ❖ Environmental Geochemistry
- ❖ Earth Systems Sciences

- ❖ Structural Geology
- ❖ Modeling and Databases

