



# 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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## Work Experience

### Senior GIS Engineer

#### KPMG US

January 2022 – Present



- ❖ Create custom geospatial web applications\visuals for internal or client use.
- ❖ Developed and currently maintain pipeline for automated deployment of ArcGIS Enterprise on Kubernetes in Dev/QA/UAT/Prod leveraging DevOps/Terraform.
- ❖ GIS analyses (white space, geo-enrichment, routing/directions) primarily related to Big Data implementations.

### GIS Specialist

#### NYC Department of City Planning

October 2018 – January 2022



- ❖ Developed 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.
- ❖ Audited and maintained 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%.

### 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.

## Education

### Hunter College

#### M.S. in Geoinformatics

Graduated May 2018



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|-------------------------------------|---------------------|
| ❖ Quantitative Methods in Geography | ❖ Database Modeling |
| ❖ Advanced GeoVisualization         | ❖ Advanced GIS      |
| ❖ GeoComputation II                 | ❖ GeoComputation I  |
| ❖ Urban Applications of GIS         | ❖ GeoWeb Services   |

### The City College of New York

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

Graduated May 2014



## Technical Skills

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

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

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

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

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

**Libraries/Platforms/Misc:** ArcGIS Online, ArcGIS for Developers, ArcGIS Pro SDK, ArcGIS Hub, ArcPy, Databricks, DigitalOcean, Carto, Leaflet, Mapbox, Martin, Cesium, GDAL, Docker, Kubernetes, Terraform, DataBricks, Pandas, NumPy, Nominatim

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

## Certifications

**Penn State University** - Graduate certification in Sustainability, Management and Policy

**ESRI** - Extending ArcGIS Pro w/ Add-Ins

## Interests



3D Printing



Biking



Cooking



Homelab



Pets