



Adrian Ferrar

Detail-oriented professional specializing in design, consulting, and implemented programming of GIS solutions. Experienced problems solver, data pipeline creator, and citywide initiative collaborator.

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New York, NY

Work Experience

Manager/Lead GIS Engineer

KPMG US

October 2024 – Present



- ❖ Lead consultation, design, and implementation of GIS applications & solutions.
- ❖ Mentor and guide junior team members.
- ❖ Build and maintain client relationships.

Senior GIS Engineer

January 2022 – October 2024

- ❖ 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.

Education

Hunter College

M.S. in Geoinformatics

Graduated May 2018

- ❖ Quantitative Methods in Geography
- ❖ GeoComputation II
- ❖ Urban Applications of GIS
- ❖ Advanced GeoVisualization
- ❖ GeoComputation I
- ❖ 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, Redis,

Languages/Frameworks: Python, SQL, HTML, CSS, JavaScript, React, R

Development Environments: Microsoft Visual Studio Code, Pycharm, JupyterHub

Libraries/Platforms/Misc: ArcGIS Online, ArcGIS Enterprise, 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

Deploying ArcGIS Enterprise on Kubernetes
Extending ArcGIS Pro w/ Add-Ins

Interests



Biking



Cooking



Homelab



Pets