Adrian Ferrar

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

✉ **idiom.weirs_0k@icloud.com** ⬤ **github.com/aferrar**

💻 **aferrar.github.io** **in** **linkedin.com/in/adrian-ferrar**

📱 **929-509-7919** 📍 **New York, NY**

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, geoenrichment, routing/directions) primarily related to Big Data implementations.

GIS Specialist
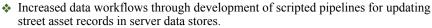**NYC Department of City Planning**
October 2018 – January 2022

- ❖ 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

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

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

Development Environments: Microsoft Visual Studio Code, Pycharm, JupyterHub

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

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