Adrian Ferrar

Geospatial professional specializing in GIS, programming, and asset management. Experience in solving geospatial problems, creating data pipelines, authoring insightful web maps, and collaborating on citywide initiatives.

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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, Cessium, 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