ADRIAN F. FERRAR

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Geospatial specialist and developer with foundational knowledge in GIS, programming and asset management. Experienced in solving geospatial problems, automating dataset procurement/maintenance/dissemination, producing insightfully pleasing web maps and collaborating with stakeholders on citywide data initiatives.

EDUCATION

Hunter College: Geography Dept.   **Graduated May 2018**
Master of Science in Geoinformatics

The City College of New York: Earth & Atmospheric Science Dept.   **Graduated May 2014**
Bachelor of Science in Earth System Science, Minor in Economics

RELEVANT COURSEWORK

- ❖ 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

TECHNICAL KNOWLEDGE

OS: Windows, Linux, MacOS

Version Control: Git, GitHub, ZenHub

Databases: ArcSDE, PostgreSQL, Microsoft SQL Server

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

Development Environments: Visual Studio Code, Pycharm, JupyterHub

Software & Frameworks: ArcGIS Desktop Suite, ArcGIS Online, ArcGIS for Developers, ArcGIS Pro SDK, ArcGIS Hub, ArcPy, ENVI, QGIS, Carto, Leaflet, Mapbox, Cessium, GDAL, Tableau, Docker, Pandas, NumPy

PROFESSIONAL EXPERIENCE

NYC Department of City Planning   **October 2018 – Present**
GIS Specialist
120 Broadway. Manhattan, NY

Working under Enterprise Data Management division to assure timely and accurate maintenance of all geospatial data products through scripted automation. Unique understanding of inter-agency geo-data pipelines regarding NYC governance and public service utilization.

- o Developed scripted pipelines for proper internal distribution of SDE sources, file-system layers and metadata associated with scheduled data set releases (LION, MapPLUTO, E-Designations, POPS, MIH, Building Footprints, LPC datasets, etc).
- o Expanding and maintaining internal ArcGIS Hub platform entitled "The Guide to Planning Resources" through combination of Hub, ArcGIS Online, and Github management.
- o Automated distribution of zoning and tax map data sets to FTP server.
- o Scripted assistance with CDBG eligible, PAS, and other analytical projects.
- o Contributed to transition of MapPLUTO data set generation via automated PostGIS to ESRI conversion process using Python.
- o Completed select courses from agency provided Land Use Academy training for improved understanding of related topics in zoning, site selection, data resources, and more.

NYC Department of Transportation   **January 2017 – June 2018**

College Aide
55 Water Street. Manhattan, NY

While working under Asset Management division, tasked with maintaining various geodatabases with python scripts to automate regularly modifying tasks in large datasets. Also maintained various MS Access DBs.
  o Increased office workflow efficiency by developing automated scripts for updating File Geodatabases and SDE server repository records for street assets.
  o Contributed to the development of a citywide predictive Street Deterioration Model using R, SQL, and Python.
  o Managed the analysis of historical commitments for all DOT bridge, street, and facility assets seeking to spatialize and evaluate funding patterns within various political boundaries.
  o Led the collection and digitization of all NYC street ownership records. Worked in collaboration with Department of City Planning and the respective City Borough President's Topography Departments. Developed QA process for evaluating digitization metrics.

New York Restoration Project   **May 2016 – December 2016**

AmeriCorps Environmental Steward
255 Liberty Avenue. Brooklyn, NY

Environmental steward involved in fostering community environment and maintaining garden asset responsibilities in areas of Brownsville, Brooklyn.
  o Participated in and planned outreach events, volunteer field projects, and provided technical support and training to community gardeners.

Atlas Environmental Lab   **August 2015 - December 2015**

Environmental Laboratory Analyst
255 W. 36th St. New York, NY

Laboratory researcher involved with examination of potential asbestos containing materials (ACMs).
  o Analyzed bulk and airborne filter samples using stereo, phase-contrast, and polarized-light microscopy and prepared paint, soil, dust wipe, and composited wipe samples for environmental lead analysis via AAS.

Telepathy   **September 2014 - August 2015**

Programming Intern
68 Jay St. Brooklyn, NY

Personal assistant to independent programmer. Aided in development of mobile applications.
  o Tested, debugged, and modified small-scale iOS and Android applications.

The City College of New York   **January 2013 – May 2014**

Undergraduate Research Assistant
160 Convent Avenue New York, NY 10031

Undergraduate research assistant tasked with the design and implementation of experiments studying interactions between viruses, bacteria and clay particulates.
  o Examined biological material interactions and supervised laboratory protocols for proper equipment maintenance and biohazard removal.

CERTIFICATIONS

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

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REFERENCES

References Available Upon Request