Sabinaya Joshi Shrestha

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Education

George Mason University   **Graduated: Fall 2019**
Bachelor of Science in Geography
Minor: Computer Science

Work Experience

GIS Intern   September 2019 - Present
Spatial Front Inc.   McLean, VA

- Assist in the Federal Railroad Administration contract with data processing duties
- Identify, validate, and attribute design types, cross types, and bridge types of railroads in assigned states
- Quality check fellow intern's work to ensure quality of attribution before 20% QC and delivery

GIS Intern   May 2019 – August 2019
Fairfax Water   Fairfax, VA

- Completed map requests to show water utility lines requested by external clients in Northern Virginia using ArcMap 10.x
- Wrote SQL queries to create new selections and edit spatial data
- Quality checked and redlined outside contractors' digitization work
- Created, maintained and updated digitized water meter features with service laterals for parcels of Fairfax Water's customers
- Scanned PCCP forms, created points on to the feature dataset, and linked it to the Enterprise GIS using ArcGIS Pro while ensuring data organization

Undergraduate Research Assistant   January 2017 - August 2018
Institution of Immigration Research   Fairfax, VA

- Created aesthetic charts, tables and maps to visually represent immigrant data using Microsoft and ArcGIS software
- Wrote scripts to automate immigration data result on SPSS
- Geocoded community colleges for a Graduate fellow's GIS day poster submission
- Ensured quality data by extensively using SPSS, Microsoft Excel and ArcMap
- Created more than 30 fact sheets of immigrant social and economic data requested by clients from all over from the U.S.

Technical Skills

Software – ArcMap/Catalog, ArcGIS Pro, ArcGIS Online, QGIS, Carto, Microsoft Excel, Word and PowerPoint
Software Development - Python, HTML, CSS, JavaScript, Trello and GitHub
Databases – PostgreSQL, SQL Server 2019 and ESRI Geodatabases
Libraries/Tools - ArcPy, Mapbox GL JS, Leaflet, Selenium, Network Analyst, and ArcGIS Model Builder

Relevant Coursework

Introduction to Spatial Computing, Web-Based GIS, GIS Algorithms, Object Oriented Programming, Introduction to Low-Level Programming, Data Structures, Software Engineering

Certifications

Automate the Boring Stuff with Python Programming, Advanced SQL for Data Scientists, JavaScript Essential Training

Projects

New York Taxi Data Visualization – Created a web application which visualizes pickup points of passengers throughout New York City from NYC open source data. The web app has various functionalities such a pop up texts for features, clusters, timeline and layer control. This application was created using HTML, CSS, JavaScript, Mapbox GL JS and SQL.

Automating tasks through Python – I have written scripts for my MacOS and for geoprocessing tools on ArcGIS to automate tedious tasks which I run by calling the file name on the command line