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