

Sabinaya Joshi Shrestha

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Work Experience

GIS Technician

Spatial Front Inc.

September 2019 - Present

McLean, VA

Client: Washington Metropolitan Area Transit Authority (WMATA)

- Responsible for maintaining and updating data for all of WMATA's metro station feature datasets.
- Rebuilt and updated metro station network paths for routing by using ArcGIS Network Analyst.
- Configured the Stationview web app using ArcGIS REST services and adding 91 metro stations to the JSON file.
- Performed regression testing for all 91 metro stations to ensure the new and existing functionalities runs accordingly.

Client: US Department of Transportation (DOT)

- Performed quality checks and data processing for the DOT Federal Railroad Administration contract.
- Wrote Python scripts to automate geodatabase creation and geo-processes for feature extraction for 50 states.
- Cut workload time by 50% and increase work efficiency by using Python/ArcPy scripts and code snippets.
- Created, edited and managed feature classes of TIGER/line datasets (railroads, waterways and roads) on the ESRI geodatabase.
- Identified, validated, and attributed design types, cross types, and bridge types of railroads in assigned states.

GIS Intern

Fairfax Water

May 2019 - August 2019

Fairfax, VA

- Used ArcMap 10.x to create 30+ maps to show different water utility lines requested by clients in Northern Virginia.
- Quality checked and redlined outside contractors' digitization work.
- Created and maintained water meter features with service laterals for properties in Fairfax County.
- Scanned 100+ PCCP forms, created points on to the feature dataset, and ensured data organization by linking it to Enterprise GIS using ArcGIS Pro.

Undergraduate Research Assistant

Institution of Immigration Research

January 2017 - August 2018

Fairfax, VA

- Created aesthetic charts, tables and maps to visually represent immigrant data using Microsoft and ArcGIS software.
- Geocoded community college locations for Graduate fellow's GIS day poster submission.
- Created 30+ fact sheets of immigrant social and economic data requested by clients from all over from the U.S.

Education

George Mason University

Bachelor of Science in Geography

Minor: Computer Science

August 2016 - December 2019

Technical Skills

- **Programming Languages** - Python, HTML, CSS, JavaScript
 - **Databases** - PostgreSQL, SQL Server 2019 and ESRI Geodatabases
 - **Libraries/Tools** - ArcPy, Mapbox GL JS, Leaflet, Selenium, Network Analyst, and ArcGIS Model Builder
 - **Softwares** - ArcMap/Catalog, ArcGIS Pro, ArcGIS Online, QGIS, Carto, Microsoft Excel, Word and PowerPoint
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Certifications

AWS Certified Cloud Practitioner

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