

# Sabinaya Joshi Shrestha

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## Work Experience

### *GIS Intern*

Spatial Front Inc.

September 2019 - Present

McLean, VA

- Identify and validate bridges over/under railroads for all 50 states.
- Attribute over 3000 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*

Fairfax Water

May 2019 – August 2019

Fairfax, VA

- Assisted with digitization in order to accurately connect individual water meter with service laterals on each service tap for parcels of Fairfax Water customers
- Quality controlled and redlined contractors' digitization work
- Completed map requests to show water utility lines requested by external clients in Northern Virginia
- Wrote SQL queries to separate and edit spatial data
- Scanned old archived PCCP forms on to the file database and linked it to the GIS Enterprise using ArcGIS Pro

### *Undergraduate Research Assistant*

Institution of Immigration Research

January 2017 - August 2018

George Mason University, Fairfax, VA

- Conducted over 300 hours of data research and analysis during the role
  - Ensured quality data by using SPSS, Microsoft Excel, Word and ArcMap
  - Cleaned and created multiple tables of the immigrant data from IPUMS into Excel
  - Solely created more than 30 fact sheets of immigrant social and economic data request by clients all over from the U.S.
  - Wrote scripts to automate immigration data result on SPSS
  - Geocoded community colleges for a Graduate fellow's GIS day poster submission
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## Key Skills

**Software** - ArcMap Desktop, ArcGIS Pro, ArcGIS Online, QGIS, Carto, Microsoft Excel, Word and PowerPoint

**Software Development** - Python, HTML, CSS, JavaScript, SQL, GitHub and MATLAB

**Extensions/Tools** – ArcPy, Selenium, Geodatabases, and ArcGIS Network Analyst

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## Education

**George Mason University**

Bachelor of Science in Geography

Minor: Computer Science

Cumulative GPA: 3.37

**Graduated: Fall 2019**

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## Relevant Coursework

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

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## Certificates

Automate the Boring Stuff with Python Programming, Advanced SQL for Data Scientists, Learning ArcGIS Python Scripting, HTML5

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## Personal Projects

**New York Taxi Data Visualization** – Created a web application which visualizes pickup points of passengers throughout New York City from the 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.