

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
- Taught employees the basics of ArcGIS Pro and showed where the different tools are located within the software

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 over the span of a year and a half
 - Ensured quality data by using SPSS, Excel, Word and ArcMap software
 - 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, ArcPy, HTML, CSS, JavaScript, SQL, GitHub and MATLAB

Languages - Conversational in Nepali, Hindi and Spanish

Education

George Mason University

Bachelor of Science in Geography

Minor: Computer Science

Cumulative GPA: 3.37

Graduated: Fall 2019

Relevant Coursework

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

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 application has various functionalities such a pop up texts for features, timeline and neighborhood search up. This application was created using HTML, CSS, JavaScript, Mapbox GL JS and SQL.

Web Portfolio – To showcase previous and current projects as well as work samples, I created my own personalized web portfolio with the help of HTML and CSS and hosted it on GitHub.