Sabinaya Joshi Shrestha

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Work Experience

GIS Intern   September 2019 - Present

Spatial Front Inc.   McLean, VA

- Identified and validated bridges over/under railroads for over 15 states.
- Attributed over 3000 design types, cross types, and bridge types of railroads in assigned states
- Quality checked fellow intern's completed states to ensure quality of attribution before 20% QC and delivery

GIS Intern   May 2019 – August 2019

Fairfax Water   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
- QC'ed 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   January 2017 - August 2018

Institution of Immigration Research   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

Key Skills

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

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

Languages - Conversational in Nepali, Hindi and Spanish

Education

George Mason University   **Graduated: Fall 2019**

Bachelor of Science in Geography

Minor: Computer Science

Cumulative GPA: 3.37

Relevant Coursework

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

Personal Projects

New York Taxi Data Visualization – With the availability of NYC open source taxi data, I created a web application which visualizes the pickup points of passengers throughout NYC. The application has various functionalities such a pop up text, timeline and neighborhood search up. I used HTML, CSS, JavaScript, Mapbox GL JS and SQL to complete this project.

Web Portfolio – To showcase all of my 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.