**VU TRAN, GISP**

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GIS Portfolio Webpage: [Vu Tran, GISP — Portfolio](https://vutran1280.github.io/vu-portfolio/)

**Professional Experience**

**GIS Analyst** CO

*WSP USA - Denver* 07/2023 – present

* Support FEMA Risk MAP Projects
* Develop and update Python Open-Source GIS Applications and Python Script Tools (for ArcGIS Pro)
* Develop and update Web Maps and Web Applications
* Develop and update Machine Learning Models to classify land cover types using satellite imagery
* Lead the development of internal open-source GIS tools to enhance workflows.
* Coordinate with engineers, project managers and clients to streamline standard operation procedures, geospatial data management, QA/QC

**Geospatial Analyst** CO

*Axim Geospatial – Denver* 03/2023 – 07/2023

* Analyze and edit hydro, transportation, build-up area, and infrastructure feature classes within an Area of Interest (AOI) by using advanced ArcMap editing tools and satellite imagery.
* Digitize, conditioning, and check attributes for hydro and transportation networks using ArcMap defense mapping tools.

**GIS Specialist Intern**  CO

*City of Westminster, Parks, Recreation and Library - Westminster* 06/2022 – 03/2023

* Automate the clean-up and data management process of more than 1000 land parcels by creating and running a Python/ArcPy script.
* Digitize over 100,000 feet of city’s fence lines. Inventory grass types for Parks. Convert land survey descriptions into polygon (COGO).
* Assist other departments with GIS (walkability analysis, ash tree removal grants application, selecting parcels affected by road works, …)
* Design more than 100 print maps and web-maps of parks and open spaces with ArcMap, ArcGIS Pro and ArcGIS Online.
* Collect and inventory city’s property data such as trash cans, fence gates, fence lines, signs, invasive species, …

**GIS Lab Assistant** CO

*University of Colorado Boulder, Geography Department - Boulder* 01/2022 – 05/2022

* Answer, explain questions, and assist students in analyzing geospatial data for GIS projects by using ArcMap toolbox and Model Builder.
* Offer technical support to students, helping them troubleshoot and resolve issues with ArcMap's Spatial Analyst’s tools and Model Builder.

**Snow Hydrology Intern** CO

*University of Colorado Boulder, Geography Department - Crested Butte* 01/2022 – 05/2022

* Use Slope, Aspect and Reclassify tools in ArcMap to analyze raster data and to pick out the most suitable sites for data collection.
* Create a multipoint feature class to collect digging sites (snow pits) coordinates and its associated attribute data (ArcMap).
* Investigate and build a model to predict the amount of water stored in snowpack for 2022 season in Snodgrass Mountain.

**Knowledge / Skill**

* ESRI ArcGIS (ArcMap 10.8, Model Builder, ArcCatalog, ArcPy, ArcGIS Pro, ArcGIS Online, ArcGIS Portal), QGIS.
* ESRI Web Mapping: ArcGIS Online, ArcGIS Portal, Dashboard, Experience Builder.
* GIS Programming and scripting languages: Python (ArcPy, and open-source library), JavaScript, HTML, CSS, and C# + .NET
* Field data collection: GNSS (Trimble R1, Bad Elf), ArcGIS Field Map (or Collector), ArcGIS Survey 123.
* Edit and digitize spatial data (vector data): shapefile, geodatabase, SDE layers (versioning), familiar with CAD (AutoCAD)..

**Education**

University of Colorado - Boulder:

* Bachelor’s Degree: Geography (GIS Focus).
* Undergraduate GIS Certificate.
* Relevant courses: GIS Mapping, GIS Spatial Analytics, GIS Spatial Modeling, GIS Programing, Web Mapping and Geo-Visualization, Statistics and Geographic Data, Information Science 2, Computer Science 1, Machine Learning and Spatial Data.

**Professional Certification**

GIS Certification Institute:

* Geographic Information Systems Professional (GISP)
* Certificate Number: 162382