Tarik Anwar

Portfolio website: https://tcanwar.github.io/Website/index.html

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EXPERIENCE

GIS Research Assistant (Remote, Currently in Durham, NC)   January 2020-Present
Ingenium Professional Services, INC   Contracted by Oak Ridge National Lab

- Significantly improve a satellite imagery object detection algorithm by meticulously digitizing buildings and roads from all over the world with a 12-person team.
- Single handedly write a python script that reduced project workflow time by automatically generating digitizing ready shapefiles with specific names.
- Come up with a new road network realignment workflow by acquiring OSM data and spatially adjusting polylines that are misaligned on satellite imagery, effectively reducing the need for labor intensive labeling tasks.
- Lead manual QA/QC of hundreds of vector and raster training data to further the accuracy of the algorithm.

Sustainability Analyst/CAC AmeriCorps Member   Jan-Dec 2019 (Contract)
City of Knoxville's Office of Sustainability   Knoxville, TN

- Aided decision makers by performing data entry, quality assurance, and analysis on municipal utility data for 120 sites with 70,000+ records in total.
- Built an Access SQL query that calculated an annual cost and consumption of the city's solar energy.
- Individually collected and recorded 300+ GPS coordinates of electric scooter infractions around the city to create a heat map that showed were infractions were occurring the most often in the city during the pilot month of their introduction.
- Created 2 additional maps for city officials displaying areas of high electric scooter activity around the city for targeted safety outreach purposes by wrangling data from SPIN that had 11,000+ recorded individual trips for the first two months.
- Spearheaded re-certification efforts for National Wildlife Federation wildlife habitat program through outreach initiatives that range from designing informative webpages, delivering presentations, and participating in local events through booths.
- Mentored and managed interns on a variety of projects.

Water Quality/GIS Volunteer   Aug-Dec 2017
Lake Pontchartrain Basin Foundation/Tulane University   New Orleans, LA

- Conducted water sampling around Lake Pontchartrain to gather data needed for GIS analysis.
- Produced 12 maps analyzing salinity, dissolved oxygen, pH, and fecal coliform levels of the lake using Kriging interpolation.
- Researched and presented on recent GIS practices and literature.

SKILLS

Software: ArcGIS Suite, QGIS, Microsoft Office Suite, Tableau, Github/GIT.
Coding: Python, SQL, HTML, CSS, Javascript.
Databases: Access, PostgreSQL, PostGIS.
Languages: English and French (Bilingual), Spanish (Professional Working Proficiency).

EDUCATION

Bachelor of Science: Ecology and Evolutionary Biology   May 2018
Minor: Public Health GPA: 3.42   Tulane University, New Orleans, LA