**Tarik Anwar**

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**EXPERIENCE GIS Research Assistant (Full Time Remote, Currently in Durham, NC)** January 2020-Present

Ingenium Professional Services, INC Oak Ridge, TN

* Contracted by the Remote Sensing Group at Oak Ridge National Lab in order to perfect a building/road feature detection algorithm from satellite images.
* Significantly improve the machine learning algorithm by meticulously digitizing on a pixel level thousands of individual buildings and roads from all over the world.
* Individually write a python script that reduced project workflow time by automatically generating set amounts of shapefiles with corresponding names in bulk.
* Lead manual QA/QC of hundreds of vector and raster samples in order to increase the algorithm accuracy.

**Outreach Coordinator/CAC AmeriCorps Member** January-December 2019 (Contract)

City of Knoxville’s Office of SustainabilityKnoxville, TN

* Performed data entry, quality assurance, and analysis on municipal utility data for 120 sites with 70,000+ records in total.
* Generated GIS maps displaying areas of high electric scooter activity around the city for targeted safety outreach purposes by projecting 11,000+ individual trips from user data.
* 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.

**Lab Student Research Assistant** August 2016-May 2017

Lab of Dr. Van Bael (Tropical endophytes/Coastal ecology) New Orleans, LA

Tulane University

* Acted as a primary assistant to one of the lab’s main projects linked to studying endophyte characteristics.
* Completed lab procedures such as DNA extractions, PCR, and gel electrophoresis in order to quantify abundance and diversity of specimens.
* Advised other volunteers on how to master sterile microbial laboratory techniques.
* Organized samples and kept results of experiments up to date across spreadsheets.

**Water Quality/GIS Volunteer** August-December 2017 Lake Pontchartrain Basin Foundation New Orleans, LA Tulane University

* Conducted water sampling around Lake Pontchartrain in order to generate data needed for GIS analysis.
* Produced 12 intricate GIS maps analyzing salinity, dissolved oxygen, pH, and fecal coliform levels in order to evaluate the overall health of Lake Pontchartrain.

**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