MINDAN SRISABARANJAN

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Geophysics/GIS

PROFESSIONAL EXPERIENCE

GIS Geologist Fugro   **10/2019 – Present**
- Supported geotechnical, environmental, water resources and marine survey projects by using ArcGIS software. Digitize, code, manipulate geospatial data collected in the field to visualize subsurface features for environmental and structural planning
- Designed ETL systems to access large historical/present geologic data for the modernization of geotechnical analysis. I carried out developing geospatial web applications and automation of processes to create a system that can easily be used by various large clients some being Caltrans, Chevron, and City of San Francisco

GIS Data Analyst Apple via Apex   **08/2018 – 09/2019**
- Analyzed raw spatial data then created and optimized complex GIS workflows integrating QGIS, PostGIS, PostgreSQL, and python that laid foundation for various other teams
- Automated workflows and managed databases using SQL queries combined with python scripting to cut time to meet deliverable deadlines, applied advanced filtering methods to datasets to meet project goals
- Performed quantitative and spatial analysis to improve ETL pipeline processes for Apple Maps. Experience in project management and training of team as well as QA/ QC of spatial data

GIS Data Analyst Intern San Diego County Office of Emergency Services (OES)   **01/2018 – 07/2018**
- Developed 2 web applications for Public Safety and Sheriff Department during emergency events applications collects data from social media and displays the images/posts searched on a map; applications will be released to the public 2018 to raise community awareness during disaster situations
- Designed an automated demographic template that queries using SQL and displays data on a simple template in Community Analyst; the 2 templates are currently being used during every critical emergency (Ex. Fires, gas leak, natural disasters, and etc.)

GIS Intern San Diego Archeology Museum Center (SDAC)   **01/2018 – 06/2018**
- Updated federal and private geodatabases with new artifacts found using GPS coordinates and created boundary polygons to mark the investigation site
- Created research maps that analyzed environmental and climate changes for Professor Ad Muniz for tracking stemmed points which aided in developing the Kelp Highway hypothesis providing evidence for how the Americas were colonized

EDUCATION

University of California San Diego - La Jolla, CA   **08/2013 – 03/2017**
- **B.S. in Geophysics/ Earth Science** with emphasis in Exploration from Scripps Institute of Oceanography, 2017

University of California San Diego Extension - La Jolla, CA   **04/2016 – 11/2017**
- **Geographical Information Systems Certificate (GIS)**, 2017

West Hills Community College - Lemoore, CA   **08/2009 - 05/2013**
- **A.A. in Math and Science**, graduated junior year of high school, 2012
- **High School Diploma**, 2013

SKILLS

- Programing Languages: Python, SQL, C, HTML
- QA/ QC of spatial data as well as developing efficient scripts for quality assurance
- Tools: ArcMap, QGIS, MATLAB, Octave, PostgreSQL, AutoCAD, Microsoft Excel, ArcGIS Community Analyst, and Photoshop
- Preferred Language: Python (Pandas, Geopandas, Matplotlib, NumPy)
- Presentation and Visualization of data for reports

- ETL (Data Extraction, Transformation, and Loading) for complex datasets
- Training/ Leading team as well as efficiently communicating project status to reach deadlines
- Applying spatial analysis, database design/ management, map creation and 3D modeling to display
- **FEMA Certification** in Application of GIS for Emergency Management

PROJECTS

- Worked on **Apple Maps** performing analytical methods as well as using proprietary software, signed NDA with Apple, 2019
- Evacuation Application for **San Diego Sheriff Department**, tested and developed mobile application for Sheriffs' to record and edit evacuation status during emergency situations using GIS geodatabase, collaboration between **San Diego OES** and Sheriff Department, 2018