JU (ANNA) ZHANG

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Skills

Python, SQL, R, VB Script. MySQL, MongoDB, Hadoop. Machine learning. MS Visual Studio, Tableau. Python 3, NumPy, Pandas, Matplotlib, API, social media mining. Leaflet.js. HTML, CSS, bootstrap, dashboarding, JavaScript charting, D3.js. Beautiful Soup, Tweepy. Modeling, forecasting. Pivot tables, VBA

Projects

UNHCR European Refugee Crisis Project

- Generated SQLAlchemy database and created yearly API routes
- Visualized destination countries of refugees on map with year slider and color scale using Leaflet is
- Created bar charts with dropdown menu by year using D3 and Plotly is

Rob Dunn's Lab Biodiversity Project

- Manipulated relational database in Python with SQLAlchemy
- Created API routes in Flask querying for data of different samples
- Plotted pie chart and bubble chart in Plotly is to display each sample
- Generated metadata section to display key/value pairs from the JSON object
- Built an interactive dashboard with bootstrap layout and deployed a Flask web app to Heroku

NASA Mars Project

- Built a web application that scraped and displayed new data when the button was clicked
- Scraped various websites, parsed and stored data for Mars images, tables, and tweets using Jupyter Notebook, BeautifulSoup, Requests/Splinter, and MongoDB

Hawaii Climate Project

- Cleaned, joined and analyzed csv data using Pandas and Python
- Analyzed weather stations and observations using SQLAlchemy ORM queries, and Matplotlib
- Designed queries to retrieve data for the trip period, and sorted and plotted from the DataFrame
- Designed a Flask API based on the deployed queries

OpenWeatherMap API Project

- Visualized the weather of 500+ random cities across the world of varying latitude
- Perform a weather check on each city using a series of successive API calls using URL endpoints
- Plotted scatter plots using Matplotlib and Seaborn libraries in Python

Sakila SQL Project

- Wrote SQL queries using Sakila database in MySQL
- Searched for, calculated and modified records using operators, aggregate functions, wildcard functions, subqueries, joins, and aliases

Twitter Sentimental Analysis Project

- Pulled tweets data of various news outlets and performed a sentiment analysis with Python
- Built scattered plots that showcased the compound polarity using Jupyter Notebook

Experience

Student The University of Texas at Austin

04/2018 to 10/2018

Austin, TX

- Data Analytics And Visualization Boot Camp
- Certified Data Analyst

Production Intern

Trunkist

07/2015 to 06/2016

Austin, TX

Successfully altered patterns, optimized production tech packs, fitting and styling

Researcher/ Analyst University of Connecticut

08/2010 to 05/2012

Storrs, CT

- Successfully submitted a proposal, and characterized and analyzed copper release
- · Supervised undergraduates' experiments, presented data weekly

Education

Master of Science: Environmental Engineering

University of Connecticut

2013 Storrs, CT, USA

GPA 3.62/4.0, Multidisciplinary Environmental Research Awards for Graduates

Bachelor of Science: Environmental Engineering

Beijing Institute of Technology

2010

• GPA 3.41/4.0, Scholarship for Outstanding Students

Beijing, China