Bobby Taylor

Data Analyst|Electrical Engineer

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Career Objective

Results-driven Data Analyst who enjoys cleaning, maintaining, analyzing and modeling data to gain critical findings to streamline efficiency. A critical thinker with a natural knack for solving a complex problem using available tools. My overall goals are to learn more about statistical learning and use programming to automate data-driven pipelines.

Core Strengths

Superior collaboration and communication skills with my ability to work across many departments has allowed me to effectively identify and address the causes of critical system issues

Strong background in research and analysis with the ability to mine hidden gems located within large sets of structured, semi-structured and unstructured data

Sense of ownership by earning a reputation for taking ownership in system performance and timely project completion.

Projects Applied

Geo-Mapping: *For this project, I performed an analysis on Earthquake data collected from the United States Geological Survey in the form of GeoJSON. The technologies I used were HTML5, CSS5, Bootstrap 3.7 for the front-end. I also used JavaScript and Leaflet to visualize results.*

SQL-Fundamentals: *In this project, the goal was to understand basic SQL queries and explore the data in python using sqlalchemy.*

Crime Review Data Analysis: *For this project, the goal was to compare crime rates to overall business reviews using Yelp's API and census data. First, I used the Yelp API and crime statistics to generate a data frame which could be used for analysis. After the data frame was generated, I used matplotlib and seaborn to visualize and perform statistical analysis on results. The outputs are located in Austin Crime Yelp Reviews repository.*

Experience

System Engineer – Balance of Plant **Jan 2008 – Jan 2016**

Ameren Missouri, Fulton, Missouri

Maintain optimal system health performance, identify root cause and resolve plant problems, review P&ID's, and improve equipment reliability using Exploratory Data Analysis techniques

- Decreased unanticipated, unplanned compressor down time by working with contractors to develop, design, and implement modification packages to upgrade instrument air controllers. This modification established a more reliable data collection UI for Operations. Project saved $30K annually and 588 total labor hours for Instrumentation and Control departments.
- Played key role in restoring diesel fuel pumps to operable status by completing fire pump performance test and reviewing historical pump performance data for all three pumps in coordination with operations, electrical, I&C, and technical support engineers.
- Prevented further degradation of air receiver tank walls and potential personnel injuries by identifying tanks were below design minimum wall criteria after data was collected and reviewed which lead to purchasing and installation of new tanks.

AREAS OF EXPERTISE

Project Planning
and Execution

Data and Quantitative Analysis

Research, Reports and Forecast

Big Data Queries and Interpretation

Python, Pandas, NumPy, and Matplotlib

SQL, MongoDB, ORM's, Hadoop, and Tableau

VBA Scripting, Dashboards, and Tracking

Javascript, leaflet.js, and Plotly.js

HTML, CSS, Bootstrap

HIGHLIGHTS

Participated in the City of Austin's, first-ever, Hackathon which focused on safety and health outcomes. In this Hackathon, my role was to find a dataset and clean for analysis.

Recognized by Nuclear Oversight for establishing a data driven monitoring system to predicted future failures and maintain system reliability.

EDUCATION

Certificate Data Analytics and Visualization 2018
University of Texas - Austin

B.S. Electrical Engineering 2007
MS&T, St. Louis, Missouri