

Bobby Taylor

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PROFILE

Driven, detail-oriented engineer and data scientist with 8+ years of experience interpreting and analyzing data to drive business solutions. Experience includes complex data modeling, forecasting, reporting and managing business critical projects. Strong technical abilities in a variety of platforms, and adept at learning new technologies quickly

TECHNICAL SKILLS

Microsoft Excel, HTML, CSS

Python, JavaScript, R, Markdown

SQL, MongoDB, Flask, Git, Heroku

Jupyter Notebook, Tableau, Power BI, Linux

KEY PROJECTS

City of Austin Hackathon, Austin, Texas, 2018

- Analyzed annual community survey results for health and safety insights.
- Utilized Pandas and Tableau to process and visualize the dataset.

Crime Review Data Analysis, Austin Texas, 2018

- Compared census data and crime rates from Data.gov along with Yelp API reviews to find any correlations and insights with crime in the Austin area.
- Utilized Matplotlib, Pandas and Seaborn to analyze and visualize the data.

PROFESSIONAL EXPERIENCE

Teacher Assistant - Data Analytics Department

Washington University, October 2019 - Current

- Ensure the Instructor is staying on track with regards to time.
- Assist students with programming languages and projects.
- Grade all homework assignments.

Systems Engineer – Balance of Plant

Ameren Missouri Callaway Nuclear Power Plant, Jan 2008- Jan 2016

- Maintained optimal plant system health performance by using historical runtime data to forecast equipment failures, which resulted in multiple project cost savings and reduced plant labor costs.
- Designed, analyzed, and managed multiple complex projects that were critical to ensure compliance to new regulatory license.
- Improved plant equipment reliability by generating financial models used by senior management to forecast projected equipment failures.
- Created internal reporting and data collection systems for quick insights across business units.
- Regularly troubleshoot complex system anomalies to ensure optimal plant operation.
- Ensured continuous improvement by implementing new maintenance checks, which reduced the potential for personnel injuries and equipment downtime.
- Conducted training for engineering support personnel, ensuring personnel understood essential system functions and potential hazards.

EDUCATION

Certificate Data Analytics and Visualization, University of Texas, 2018

- Built dynamic full-stack web-based report generators – Flask, Bootstrap, HighchartsJS
- Database usage/manipulation – SQL; Data analysis – MathJS, Pandas, NumPy, and Matplotlib

BSc Electrical Engineering, Missouri University of Science and Technology, 2007

- Mathematical concentration