

# Bobby Taylor

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## PROFILE

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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

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Python, JavaScript, R, HTML, CSS

Pandas, Matplotlib, NumPy

SQL, MongoDB, Django, Flask, Git, Heroku

Jupyter Notebook, Tableau, Power BI, SAS

## KEY PROJECTS

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### 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.

### Geo-Mapping Project, Austin, Texas, 2018

- Collected earthquake data from the United States Geological Survey public API to gain insights on the distribution of earthquakes in the world over a 1-week period.
- Visualized the data with LeafletJS mapping library, Bootstrap, and JavaScript.

### 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.

## EDUCATION

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### 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

## PROFESSIONAL EXPERIENCE

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### Systems Engineer – Balance of Plant

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

- Performed statistical analysis of power plant historical data to optimize maintenance schedules and forecast the probability of equipment failures. Reduced operating costs, project costs, and overall plant labor costs while delivering increased reliability and safety.
- Experience managing multiple complex projects at once; met regulatory compliance and delivered projects on-time and on budget.
- Generated financial models to optimize plant operation across multiple plane operational units.
- Created internal reporting and data collection systems for quick insights across business units.
- Troubleshoot complex electrical, pneumatic, hydraulic, and computer system anomalies to ensure optimal plant operation.
- Implemented maintenance checks, which reduced the potential for personnel injuries and equipment downtime.
- Training Instructor for engineering support personnel; ensured personnel understood essential system functions and potential hazards.