

# JAMES BABYAK

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I'm a self-motivated data scientist who isn't shy about tackling critical issues. I have always been fascinated by numbers and patterns and use this ability to extract insight and knowledge from hidden details. By using my intuition and skill, I strive to find insights in the data and collaborate with the right people to make a positive impact. The truth is in the details, let's work together.

## SKILLS

### Technical

Machine Learning, Data Visualization, Regression Models, Data Mining, EDA, Predictive Modeling, Natural Language Processing (NLP), Design of Experiments

### Analytics

Data Analytics, Cost Modeling, Quantitative Analysis, Statistics, Design

### Programming and Software

Python, Excel, Tableau, SQL, R, TensorFlow, NumPy, Pandas, Scikit-Learn

## EXPERIENCE

### General Assembly

Jul 2018 – Oct 2018

*Data Science Fellow*, Immersive Program

Enrolled in program focusing on the ability to analyze, make sense of, convey data-driven content from massive datasets, and make predictions through modeling and pattern recognition.

#### Projects

- Explored behavioral changes using unsupervised learning on artist's lyrics
- Built a classification model with 94% accuracy for the 2018 Texas Senate campaign using Natural Language Processing on social data
- Built regression models to locate West Nile outbreaks in Chicago

### Frontier Energy

Jun 2015 – Jul 2018

*Energy Analyst*, Energy Consulting

- Created models of buildings to predict energy efficiency savings for measures and developed algorithms used in the technical reference manuals of 3 states
- Conducted research on new energy efficient products and presented feasibility studies that led to the adoption of three new measures in utility client's portfolios
- Analyzed the cost impact of policies for the ERCOT energy market

### Samsung Austin Semiconductor

Jun 2010 – May 2015

*Equipment Engineer*, Photolithography Operations

- Designed new sensor data reporting that optimized data collection and led the standardization across all four global manufacturing sites
- Identified and led team project to reduced equipment downtime by 25% through analyzing data, applying statistical models, and testing new sensor algorithms

## EDUCATION

### General Assembly

Data Science Fellow

### University of Texas at Austin

Bachelor of Science in Mechanical Engineering

## ENGAGEMENT

### City of Austin, Resource Management Commission

Feb 2017 – Present

Serve on citizen board and support the city council as an reliable expert on policies for clean energy technologies, renewable energy sources, and on energy conservation.