

# Aaron Glover

SR DATA SCIENTIST

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*I am value driven, motivated to maximize productivity through simplicity. I take a liberal arts approach to data science, refining decision-making across any organizational level. I find the answers in the questions, clarifying the “why” and predicting “what’s next”.*

## Experience

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### Enterprise Products

Houston, TX

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May 2019 - Current

- Developed a recurrent neural net for predicting heat exchanger failures. Model was the first deployed solution at Enterprise, implemented in the first 8 weeks of hire.
- Built a Monte Carlo simulation that optimized spare parts inventory, potential savings in the multi-millions.

### Sanchez Energy

Houston, TX

DATA SCIENTIST

Apr 2017 - May 2019

- Developed a model fitting solution for determining a well’s spontaneous (SP) log curve using peak detection methods and Kalman filters. The end result is used for identifying potential oil field plays to target.
- Developed a Markov Chain Monte Carlo solution for simulating a well’s decline curve and ultimate recovery. This augmented Engineering’s decision making on how much a well will make over it’s lifetime.
- Optimized a geophysics simulator written in Python which decreased runtime by 6x and lines of code were reduced 10x.
- Contributed to the development of a multi model prediction framework for predicting well production. The solution was a significant improvement on the industry standard decline curve fitting.
- Implemented a realtime alert for detecting tubing leaks which resulted in a cost savings in the six figures. An industry standard deterministic model was required by Engineering, the model was optimized by sampling the search space with a Tree-structured Parzen Estimator.

### Occidental Petroleum

Houston, TX

DATA ANALYTICS

Jan 2012 - Mar 2017

- Developed a Monte Carlo simulation to determine the optimal number of workover rigs for a given field. Implemented in fields across Texas and California with a savings in the high six figures.
- Built a logistic regression model for predicting the likelihood of IT tickets breaching their SLAs.

## Education

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### Texas A&M | M.S. in Analytics

Houston, TX

MAJOR GPA: 3.8

May 2017

- Thesis: Predicting the likelihood of ESP well failures utilizing survival analysis and gradient boosting.

### University of North Texas | B.S. in Information Systems

Denton, TX

MAJOR GPA: 4.0

Dec 2011

## Projects

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- 📄 Appias - A library for gluing together a few of the standard steps when exploring a dataset and building a model.
- 🐦 Taleb but AI - GPT2 model trained on Nassim Taleb’s quotes.
- 📄 cookiecutter\_ds - Repository template for starting data science projects.