

## Keith Kruelskie

Data Scientist/Engineer

<https://www.linkedin.com/in/keithkruelskie/>

<https://keithkruelskie.github.io/>

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**SKILLS:** \* Python \* SQL \* NLP \* Machine Learning \* Web Scraping \* Data Visualization \* Writing \* Predictive Analytics \* Data Wrangling \* Engineering \* Design \* CAD Modeling \* Project Management \* FEA \* AWS \* Spark \* Keras TensorFlow

As an engineer turned Data Scientist, I apply my analytical skills and process driven leadership to solve difficult problems in creative ways. My values of integrity, communication, and creativity contribute to an overall open and positive team mentality.

## Relevant Experience

### GENERAL ASSEMBLY

Denver, CO  
NOV 2020  
- MAR 2021

### DATA SCIENCE IMMERSIVE

Developed skills modeling and analyzing large datasets in a boot camp setting for over 500 hours. Acquired, cleaned, and transformed data from varied sources. Built visualizations, analyzed datasets and predicted classification and regression outcomes using scikit-learn, pandas, NLP, and other methods. Created websites and data science apps with Flask and Streamlit to predict housing prices and classify images.

Projects:

-Predicted athlete race times using time series forecasting and auto ARIMA methods. Used PyMC3 to decompose the seasonality and fluctuations in training athlete to athlete, and created customized individual predictions based on past training performance.

-Built a website and flask app to visualize and predict on data associated with the Washington D.C. Public School System. Interactive app allowed for custom visualizations and overlays based on D.C. neighborhoods and school locations.

-Designed an ethical text detector using NLP to analyze two opposing advice threads on Reddit. Developed a predictor to analyze any raw text to check it's ethical nature.

### OTS

### ENGINEERING MANAGER

Denver, CO  
MAR 2020  
- APR 2020

Led engineering to deliver new product and quality improvement measures. Managed product detail design for 20 permutations of 3 main downhole coupling products.

-Development of Test Fixtures for current and future coupling products

-DFM review of machine drawings

-3D CAD design and analysis in SolidWorks

**TRELLEBORG  
SEALING  
SOLUTIONS**

Louisville, CO  
JAN 2017  
- FEB 2020

**PRODUCT ENGINEER/APPLICATION ENGINEER**

Interfaced with customers and managed over 100 projects in various stages of design and manufacturing from prototyping to production run parts, in plastic and elastomeric materials.

As a Product Engineer, designed over 350 unique seals for the aerospace, oil and gas, automotive, and medical industries. Performed FEA and statistical analysis to optimize seal performance.

**FMC TECHNOLOGIES**

Houston, TX  
OCT 2013  
- OCT 2016

**ENGINEER**

Designed over 100 pieces of RLWI equipment for projects in size up to \$5,000,000. Managed 3-4 drafters and shop personnel to coordinate delivery of designs and complete shop floor function and pressure testing.

**WEST ENGINEERING**

Houston, TX  
SEP 2010  
- OCT 2013

**ENGINEER**

Engineer, a technical role for Lloyd's Register Drilling Integrity Services. Provided technical support to surveyors in the form of calculations, research, and equipment knowledge. Performed over 2500 hours of inspections on drilling equipment and drill-through equipment, witness commissioning, and assisted in related field work. Was main point of contact for eWCAT assistance for Shell assets around the world. Worked with, inspected, and consulted on BOP equipment, subsea equipment, and topside equipment.

**VALVTECHNOLOGIES**

Houston, TX  
SEP 2009  
- OCT 2010

**APPLICATION ENGINEER**

Provide Applications support for inside sales group at Valvtechnologies. Process orders from initial price inquiry to final sales order entry. Manage multiple ongoing business ranging in size from small day-to-day orders to multi-year projects. Select materials, define operating conditions, and specify trim packages to ensure valves meet NACE, ASME and other codes.

**Education**

**GENERAL ASSEMBLY**

Denver, CO  
NOV 2020  
- MAR 2021

**DATA SCIENCE IMMERSIVE**

Developed proficiency with python and associated data science libraries including SciKit-Learn, Pandas, Numpy, Scipy, Matplotlib, and others. Worked with data pipelines, model optimization and selection.

**University of Texas  
at Austin**

Austin, TX  
SEP 2005  
- MAY 2009

**BACHELOR OF SCIENCE, MECHANICAL ENGINEERING**