

Keith Kruelskie

Data Scientist/Engineer

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<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.

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

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.

-Reduced time to engineer final coupling forms by 20% by implementing parametric modeling

-Improved contract engineering throughput by 10% using kanban software and implementing scrum style meeting schedule

TRELLEBORG SEALING SOLUTIONS

Louisville, CO
JAN 2017
- FEB 2020

PRODUCT ENGINEER/APPLICATION ENGINEER

Interfaced with customers and managed over 100 projects in plastic and elastomeric materials. Designed over 350 seals for aerospace and medical industries. Used CAD and FEA to optimize designs.

-Drove an increase in revenue at our largest customer of 15% YOY through targeted design reviews with customer engineering and decreased project turnaround time

-Prevented loss of 3 separate customers valued at a total of \$120,000 in revenue / year in the Rocky Mountain region by addressing design concerns, expanding prototype options to allow for rapid iteration, and adjusting material chemistry

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

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, witnessed commissioning, and assisted in related field work.

-As part of a team, reduced the time to readiness for 3 separate vessels by an average of 6 months, saving the customer upwards of \$200,000 / day

VALVTECHNOLOGIES

Houston, TX
SEP 2009
- OCT 2010

APPLICATION ENGINEER

Manage multiple ongoing projects 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