

Cassidy Exum

Brooklyn, NY
(516) 509-3840
cassidy.j.exum@gmail.com
github.com/CassidyExum

PROFESSIONAL PROFILE

Skilled Mechanical Engineer with an innovative mindset that is passionate about data science. Experienced in working with unique data sources, implementing machine learning models, and providing consequential insights to stakeholders.

EXPERIENCE

Pvilion Technologies, Brooklyn NY — *Project Engineer*

FEBRUARY 2022 - PRESENT

- Pioneered the design and deployment of a \$1.7M contract for a solar energy and battery kit for Ukrainian embassy workers.
- Executed exploratory data analysis on weather data and Pvilion's solar system in different locations to determine ECU power draw and generator runtime.
- Performed BESS design on residential and commercial sized projects
- Mentored and onboarded 15 employees in engineering fundamentals, innovative design, and manufacturing processes.
- Specifically tailored presentations of technical projects to executives and external partners in order to effectuate immediate actions and decisions.

Design Resources, Smithtown NY — *Design Engineer*

JUNE 2019 - JANUARY 2022

- Worked with numerous clients to develop innovative products and solutions using multiple CAD software.
- Designed parts to be machined, injection molded, and made from sheet metal.

TECHNICAL PROJECTS

NLP and Sentiment Analysis - [Github](#)

Performed Sentiment Analysis on tech tweets to understand market opinion

- Used NLTK, Keras, and pre-trained language models to predict public sentiment of Apple products.
- Obtained the most similar positive and negative words using gensim word2Vec embedding.

Time-Series Power Consumption Modeling - [Github](#)

Created a time-series model to forecast power consumption of Tetouan city

- Trained more than 10 shallow regression models and time-series specific models on the time-series and its features.
- Used a statsmodel's SARIMA model to perform one-step ahead forecasting.

EDUCATION

The Flatiron School, New York, NY

APRIL 2022 - JUNE 2023

Bootcamp in Data Science and Machine Learning

Stony Brook University, Stony Brook, NY

AUGUST 2016 - MAY 2020

Bachelor of Engineering in Mechanical Engineering, Minor in Computer Science

TECHNICAL SKILLS

Python, Git, SQL, MATLAB

Pandas, SKLearn, Keras

NLP, NLTK, PySpark

Statsmodels

Creo, Solidworks, Inventor

AutoCAD, Microsoft Suite

Finite Element Analysis

PERSONAL SKILLS

Complex Problem Solver

Critical Thinker

Strong Technical Aptitude

Strong Organizational skills

Attention to Detail

Strong Communicator

HOBBIES & INTERESTS

Chess: 2000 rated player.

Active in playing, promoting, and supporting the chess community.

NCAA Wrestling: Wrestled

division I for the University of Maryland before transferring