Cassidy Exum

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github.com/CassidyExum

PROFESSIONAL PROFILE

Skilled Mechanical Engineer with an innovative mindset that is passionate about renewable energy and data.

EXPERIENCE

Pvilion Technologies, Brooklyn NY — *Project Engineer / BESS Engineer*
FEBRUARY 2022 - PRESENT

- Conducted data analysis on Pvilion installations to derive actionable insights on optimizing solar production, CO2 offset, and design iterations.
- Piloted the design and execution of a $1.7M solar energy and battery storage solution for Ukrainian embassy workers.
- Served as Lead BOS Engineer for a mobile fold-out solar trailer, overseeing system design, integration, and performance optimization.
- Developed and Implemented a customer service ticketing system to improve issue tracking, response efficiency, and overall customer satisfaction.
- Designed a comprehensive pricing catalog and CPQ tool in spreadsheets to streamline the pre-sales process, enhancing accuracy and efficiency in quoting.

Design Resources, Smithtown NY — *Design Engineer*
JUNE 2019 - JANUARY 2022

- Designed and developed innovative client products using CAD, creating machined, injection-molded, and sheet metal parts with detailed engineering drawings, assembly instructions, and manuals.

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, Morocco

- 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, PVLib,

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

NCAA Wrestling: Wrestled division I for the University of Maryland before transfering