Jonathan Friedman

Full Stack & Data Science

CONTACTS

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EDUCATION

Master of Science, Mechanical Engineering
Worcester Polytechnic Institute
Aug 2017 - Dec 2017

Bachelor of Science, Mechanical Engineering
Minor, Computer Science
Worcester Polytechnic Institute
Aug 2013 - May 2017

SKILLS

Python, React, JavaScript, TypeScript, AWS, Flask, FastAPI, Kubernetes, Docker, Unix, Git, Machine Learning, Computer Vision, Optimization, Google Cloud, HTML, CSS, SQL, NoSQL, Postgres, MSSQL, MongoDB, Leaflet, Databricks, VBA, Java, R, MATLAB

WORK EXPERIENCE

Full Stack Software Engineer | Sunnova **July 2022 - Current**

- Created RESTful APIs with Flask and integrated machine learning techniques to reduce residential solar design generation time from weeks to minutes
- Developed full-stack web application using React, creating an interactive mapping tool with drawing capabilities with Leaflet, rendering 3D designs in Three.js
- Implemented and managed Postgres and MongoDB databases, constructing dedicated microservice endpoints to support new features
- Leveraged advanced data science techniques and frameworks to analyze and extract meaningful insights from satellite imagery, enabling optimization strategies for solar designs

Data Engineer | Pattern Energy **Nov 2021 - Apr 2022**

- Built meteorological measurements database platform in Azure Data Warehouse utilizing Databricks, and created field-to-analyst data pipelines, reducing time for data compilation from hours to seconds
- Collaborated closely with users to create solutions, including safe metadata entry and editing, a streamlined data download portal, an efficient data entry approval process.
- Employed comprehensive stakeholder engagement and iterative design methodologies to ensure seamless user experiences and optimal functionality

Energy Analyst | Pattern Energy **June 2021 - Nov 2021**

Wind & Solar Resource Analyst | Ørsted **July 2020 - June 2021**

Wind & Solar Resource Analyst | UL Renewables **Nov 2019 - July 2020**

Wind Resource Assessment Intern | Nextera Analytics **May 2019 - Aug 2019**

Operations Analysis Intern | ERCOT **May 2018 - Aug 2018**

PROJECTS

Shelfscan

- Developed a system to detect book spines in an image accurately using a custom-trained model for instance segmentation
- Implemented image normalization and deskewing techniques for optimal OCR results
- Authored a coherency metric to determine what OCR results are most confidently English
- Integrated Google's Books API for identifying books accurately
- Hosted on Google Cloud Run for serverless deployment