

JONATHAN S. FRIEDMAN

✉ Friedman.jonny@gmail.com

☎ 845-664-2517

EDUCATION

Master of Science

Mechanical Engineering

Worcester Polytechnic Institute

📅 Aug 2017 - Dec 2017

🎓 3.8

Bachelor of Science

Mechanical Engineering

Minor

Computer Science

Worcester Polytechnic Institute

📅 Aug 2013 - May 2017

🎓 3.9

Sustainable Energy Technology

Technische Universiteit Delft

📅 Aug 2018 - Aug 2019

Wind Energy Graduate Studies

Danmarks Tekniske Universitet

📅 Feb 2021 - May 2021

SKILLS

Python, React.js, JavaScript, AWS, Flask, FastAPI, Kubernetes, Docker, Unix, Bash, Git, Machine Learning, Computer Vision, HTML, CSS, TypeScript, SQL, NoSQL, Postgres, MSSQL, MongoDB, Leaflet, PVsyst, ArcGIS, PVlib, PVWatts, Databricks, VBA, Java, R, MATLAB, C

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 a full-stack web application using React, creating an interactive mapping tool with drawing capabilities using 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 an Azure Data Warehouse utilizing Databricks, and created field-to-analyst data pipelines, reducing time for data compilation from hours to seconds
- Worked with analysts to create solutions such as: safe metadata entry and manipulation, data download portal application, dedicated database admin approval processes
- Performed preliminary investigation of machine learning models for anomaly detection in wind resource field measurements

Energy Analyst

Pattern Energy

📅 Jun 2021 - Nov 2021

Wind & Solar Resource Analyst

Ørsted

📅 Jul 2020 - Jun 2021

Wind & Solar Resource Analyst

UL Renewables

📅 Nov 2019 - Jul 2020

Wind Resource Assessment Intern

NextEra Analytics

📅 May 2019 - Aug 2019

Operations Analysis Intern

ERCOT

📅 May 2018 - Aug 2018