

# Jonathan Friedman

Full Stack & Data  
Science

## EDUCATION

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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

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

## CONTACTS

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friedman.jonny@gmail.com  
+1-845-664-2517  
linkedin.com/in/friedmanjs  
jsfriedman.github.io

## WORK EXPERIENCE

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**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**