

Jonathan Huster

I am a software developer with a background in energy. My current role is “Senior Software Developer” at Ascend Analytics where I work with Python to create data modeling tools. I enjoy working on collaborative teams using cutting edge technologies.

Education

- 2020-2022** **MS, Energy Resources Engineering**; Stanford University (Palo Alto, CA)
Thesis: Carbon Abatement Cost Curves for Power Generation in the United States
- 2014-2018** **BA, Physics**; Washington University in St. Louis (St. Louis, MO)

Experience

Senior Software Engineer - Ascend Analytics

Worked on a team of 7 engineers creating sustainable scalable backend products. Focused on areas of data engineering, modeling, containerization, and Testing:

- Designed and implemented model improvements decreasing model run time by 40%
- Trained a dozen non-technical team members to use cloud resources for a 60% cost reduction
- Dockerized sub-modules enabling runs on Azure Infrastructure for scalability and repeatability
- Assisted in migrating file systems to blob from on prem. resources for security, accessibility, and ease of use

Summer Intern - Federal Energy Regulatory Commission

- Created Power-BI dashboard with SQL and Pandas to empower non-technical individuals to explore millions of data points

Research Associate - JGCRI (Pacific Northwest National Lab)

- Identified and built narratives quantifying and communicating impacts from data and model results
- Formatted, aggregated, and synthesized data (~1,000,000's rows) using R's Tidyverse package

Technical Experience

Arjan Codes I earned a certificate from [Arjan Codes](#) for the completion of his Software Designer Mindset. I learned about pytest and unit-tests, simple CI/CD pipelines, and design practices in minimizing coupling and maximizing cohesion.

Programming Languages **Python:** I have focused on data modeling, using libraries like Pandas and Numpy. I have used pytest and unittest to validate behavior interacted with Azure's blob systems and utilized Docker to standardize and scale code usage with batch jobs and container apps on Azure.