Brandon Micale Kelley

Data Scientist, Commercial and Industrial Solar Operations
Duke Energy Corporation

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Experience

Data Scientist, Duke Energy Corporation Nov 2021 - Present

- I manage **business analytics** solutions for large scale solar operations
- I apply descriptive and predictive statistics in a production environment composed of an **Azure Data Lake**, **Apache Spark**, and **Jupyter Notebooks**.
- Key projects: Data Acquisition Systems (DAS) installation process modeled with Theory of Constraints, solar and battery production intelligence

Renewables Data Analyst II, Duke Energy Corporation Apr - Nov 2021

- Motivated cross-functional process and technology improvements in the long-term maintenance of solar sites
- Led exercises in **trend analysis, modeling, and automated reporting**
- Introduced systems to benchmark standard work speed and produce a **30% reduction in non-standard work order volume**
- Key projects: Solar production reviews, aging work and invoice approval reduction

Systems Analyst / Developer, REC Solar Commercial Corporation Jun 2018 - Apr 2021

- Oversaw software integrations for the Business Systems team
- Increased data analysis adoption in the construction of solar assets with demonstrated skills in **collaboration**, **requirements engineering**, **full stack development**, **cloud deployment**, and **SQL business logic**
- Key projects: Change modeling in funded portfolios, predictive construction constraints

Software Design Engineer I, Microsoft Corporation Jun 2016 - Sep 2017

- Architected and developed a speech transcription framework enabling increasingly **complex parameterization for Cortana service learning and evaluation**
- Pioneered **metrics scoping** for new dictation commanding feature with product owners for Xbox, Windows, and VR/AR

Education

M.S. Business Analytics *(incoming)*, University of California, Irvine Aug 2022 - Jun 2023

- *"Prepares you in predictive forecasting, descriptive data mining and business insights, and prescriptive optimization and simulation methods, giving you the tools to recognize trends and patterns needed to execute creative business strategies."*

B.S. Computer Engineering, California Polytechnic State University Sep 2014 - Jun 2018

- Authored *Considerations for Human-Computer Interaction in the Development of Autonomous Robotic Systems*, a research design report under Dr. John Oliver which **evaluated anthropomorphism, cognitive resource theory, and value-centered design in mixed reality environments.**
- **Measured location security flaws in the LTE protocol** as a student research assistent under Dr. Bruce DeBruhl
- Applied concepts in computational intelligence to stream Twitter API content, performing **sentiment analysis with Tensorflow** and a simple bag of words model.