Brandon Micale Kelley

Data Scientist, Commercial and Industrial Solar Operations
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Experience

Data Scientist, Duke Energy Corporation   Apr 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**
- I introduced systems to benchmark standard work speed and enable weekly reviews that produced a **30% reduction in non-standard work order volume** in the first 3 months
- I oversaw **successful system monitoring delivery for >54MW** worth of solar projects collecting government tax incentives in a 3rd party funded portfolio, identifying future scheduling concerns in a **regression model applying Goldratt's Theory of Constraints**
- Key projects: Solar and battery production intelligence, aging work and invoice approval reduction, field work safety, completeness, and response time analysis

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

- Oversaw software integrations for the Business Systems team
- Regularly led exercises in **trend analysis, modeling, and automated reporting**
- Increased data analysis adoption in the construction of solar assets with demonstrated skills in **collaboration**, **requirements engineering**, **full stack development**, **Azure cloud deployment**, **SQL business logic**, and data presentation in **Excel** and **Power BI**
- Key projects: Change modeling in funded portfolios, predictive construction timelines

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

- Architected a speech transcription framework capable of walking a user through modular stages of transcript refinement.
- Applied a specific speech transcription pipeline to begin crowdsourcing experiments and ultimately enable increasingly **complex parameterization for learning and evaluation of the Cortana speech service.**
- Collaborated with product owners for Xbox, Windows, and VR/AR to **define metrics** for new dictation commanding features

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 applying **anthropomorphism**, **cognitive resource theory**, and **value-centered design** to a model evaluating **autonomous systems** 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.