

# Brandon Micale Kelley

Senior Analytics Engineer, Data Science  
Preston Ventures

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## Experience

**Senior Analytics Engineer**, Preston Ventures Jul 2022 - Present

- I deliver semi-structured health and financial records that **fuel our predictive products**
- I deploy **data modeling and pipeline automation** solutions using DevOps tools including Alembic, Docker, and Kubernetes, hosted in AWS
- I engage in design and code reviews that **boost software engineering best practices**

**Data Scientist**, Duke Energy Corporation Apr 2021 - Jun 2022

- Managed **business analytics** solutions for large scale solar operations
- Applied descriptive and predictive statistics in a production environment composed of an **Azure Data Lake, Apache Spark, and Jupyter Notebooks**
- 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
- 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**

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

- 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**.

## Education

**M.S. Business Analytics (candidate)**, University of California, Irvine Aug 2023 - Jun 2024

- *"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 a research design report under Dr. John Oliver, applying **anthropomorphism, cognitive resource theory**, and **value-centered design** to form a model of **autonomous systems** in **mixed reality** environments
- Measured location security flaws in the LTE protocol as a student research assistant 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.