

Brandon Micale Kelley

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Preston Ventures

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Experience

Senior Analytics Engineer, Preston Ventures

Jul 2022 - Present

ETLs Microservices Python Pandas SQLAlchemy Alembic Docker Kubernetes AWS

- I deliver semi-structured health and financial records that fuel predictive policy valuations
- I deploy big data modeling and automation solutions for analytical production processes
- I engage in design and code reviews that boost software engineering best practices

Data Scientist, Duke Energy Corporation

Apr 2021 - Jun 2022

Data Visualization Python Pandas Jupyter Lab Apache Spark Azure Synapse Azure Datalake

- Managed business intelligence solutions for large-scale solar operations & maintenance
- Introduced systems to benchmark standard work speed and enable weekly reviews with a measured 30% reduction in non-standard work order volume in the first 3 months
- Oversaw on-time delivery for >54MW of solar system monitoring installations, identifying scheduling conflicts in a regression model applying Goldratt's Theory of Constraints

Systems Analyst / Developer, REC Solar Commercial Corporation

Jun 2018 - Apr 2021

Continuous Improvement Agile Excel Power BI C# .NET Core Azure SQL Server ETLs

- Regularly led exercises in trend analysis, modeling, and automated reporting
- Maintained a normalized data model sourced from various business systems
- Key projects: Change modeling in funded portfolios, predictive construction timelines

Software Design Engineer I, Microsoft Corporation

Jun 2016 - Sep 2017

Software Engineering API Design JavaScript Bootstrap Azure App Service AWS Mechanical Turk

- 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

Readings

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|---------------------------------|----------------------------------|-----------------|--------|
| • <i>Design Patterns</i> | Gamma, Helm, Johnson, Vlissidies | Object-Oriented | © 1977 |
| • <i>The Goal</i> | Eliyahu Goldratt | Critical Chain | © 1984 |
| • <i>Factfulness</i> | Hans Rosling | Demographics | © 2018 |

Education

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 multi-modal interaction for 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, perform sentiment analysis with Tensorflow and deploy a simple bag of words model.