

James Babyak

Senior Analytics Engineer

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I'm a highly motivated analytics engineer who strives to find impactful data solutions to difficult challenges and provide reliable and scalable solutions. I excel at refining complex data models into useful data-driven insights that help people make informed strategic decisions.

Work Experience

Senior Analytics Manager

Aug 2023 - Present

National Football League

- Lead a team of 4 BI developers in creating data products for the fan engagement and marketing domains, including business metric catalogs, dimensional models, and Power BI dashboards.
- Led the design and implementation of the league's first semantic layer using DBT to improve metric consistency, data model architecture, and reporting scalability.
- Created standards for maintaining best practices in DBT for project structure, metrics, tests, and macros.
- Collaborated with data engineering to establish data quality standards, metadata, and cataloging methods across the tech stack.

Clinical Analytics Manager

Jul 2021 - Aug 2023

Babylon Health

- Led the team in ETL for new clinical data sources into our data infrastructure and converting to useful operational metrics for analytics.
- Managed and optimized performance of Tableau by developing visualization standards, optimizing data refresh methods, and mentoring analysts on implementation.
- Created unsupervised ML models to perform risk stratification and developed a scalable data pipeline to automate updates to a patient's health risk profile.

Business Intelligence Analyst

Jun 2020 - Jul 2021

Babylon Health

- Developed reports to provide operational insight and trends into new business launches across 5 states.
- Created and designed new data models, metrics, and measurable goals to inform clinical leadership about the launch of the Value-Based Care business segment.
- Led the consolidation of data models between the US and International markets while protecting data integrity and accuracy.

Data Analysis Specialist

Feb 2019 - May 2020

Southwest Key Programs

- Led the build of 30 Tableau dashboards by collaborating with clinical and operations teams to determine reporting needs and metrics.
- Created an NLP classifier model using unsupervised learning to label topics from text datasets of incidents that affected youth's care strategy.
- Provided thought leadership in evaluating and implementing data tooling options for the company by collecting criteria and comparing performance across key functional features.

Engineering Associate

Jun 2015 - Jul 2018

Frontier Energy

- Developed savings algorithms used to evaluate energy efficiency programs across 3 states.

- Collected, cleaned, and standardized datasets for utility's efficiency program performance to conduct statistical analysis.

Equipment Engineer

Samsung Austin Semiconductor

Jun 2010 - May 2015

- Analyzed production data to find hidden insights into the cause of manufacturing issues and reduced equipment downtime by 25%.
- Identified and implemented cost savings projects initiatives that reduced material spend by 15%.

Core Skills

Data Analysis, Statistical Modeling, ETL, Data Visualization, SQL, DBT, Python, Git, Tableau, Looker, Power BI, Jupyter Notebook, Atlan, GSheets, Excel, Data Science, Classification, Regression, Clustering, Predictive Models, Topic Modeling, NLP, Data Processing, Data Engineering, AWS, BigQuery, Redshift, Snowflake, Airflow, Azure, Data Automation, Project Management, Stakeholder Management, Process Improvement, Mentoring, Communication Skills, Agile

Education

General Assembly

Jul 2018 - Oct 2018

Data Science Immersive

The University of Texas at Austin

Aug 2005 - Dec 2009

Bachelor of Science Mechanical Engineering