

Jake Shafer

Data Engineer | Educational Analytics Professional | Pipeline Development Professional

Dickson, TN 37055 | (870) 317-8987 | j.shafer072017@gmail.com

Portfolio: <https://my-portfolio-eta-five-91.vercel.app/>

GitHub: <https://github.com/shatteredsent>

Profile Summary

Accomplished data professional with 10+ years of experience in data-driven decision making and analytics across education and public sectors. Proven expertise in building ETL pipelines, developing performance dashboards, and implementing data quality processes. Currently I specialize in data engineering with hands-on experience in pipeline development, database optimization, and automated data processing systems.

Professional Experience

- **Data Engineer Intern** | *Banyan Labs* | 2025 -Present
 - Design and implement ETL/ELT data pipelines using Python and SQL to automate data extraction, transformation, and loading processes.
 - Develop data quality monitoring and validation frameworks ensuring 99%+ data integrity across systems.
 - Collaborate with cross-functional teams using Agile methodologies and Git/GitHub for version control and code reviews.
 - Build and optimize database solutions and data models to support analytics and reporting requirements.
 - Architect and deploy cloud-based data solutions on AWS (S3, RDS) supporting scalable analytics infrastructure.
- **Sales Consultant** | *Reiselman Motor Company* | 2023-2024
 - Analyzed customer data and sales metrics to optimize performance and identify trends.
 - Trained and mentored junior staff using data-driven coaching methods.
 - Developed performance tracking systems and conducted regular data-informed reviews
- **Education Consultant & Administrator** | *Arkansas Department of Education & Various Districts* | 2015- 2023
 - Designed and facilitated 50+ professional training aligned to regulatory standards and state licensure requirements, impacting over 1,500 education professionals across 13 districts, increasing recruitment and retention via strategic workforce partnerships by 7% in targeted schools.
 - Evaluated personnel performance data to guide certification renewal, coaching, and workforce placement.
 - Served as liaison to 13 districts for staff licensure compliance, development, and candidate readiness.
 - Partnered with agencies to improve hiring pipelines and reduce licensure processing times.
 - Secured and managed a \$90K annual state-funded grant by aligning project goals with a measurable 10% increase outcome tied to coaching and performance improvement.

Technical Projects

- **Arkansas Education Performance Dashboard** | *React, TypeScript, Data Visualization*
 - Engineered data visualization dashboard aggregating educational performance metrics across 13 Arkansas school districts, processing data for 1,500+ education professionals.
 - Implemented automated data collection and transformation processes to track district performance outcomes and compliance metrics.
 - Built responsive dashboard displaying key performance indicators including staff metrics (\$270K+ budget impact) and district-wide analytics.

- **ETL Data Pipeline Projects** | *Python, GoLang, SQL*
 - Developed and deployed automated ETL pipelines for data extraction, transformation, and loading processes.
 - Implemented data quality validation and monitoring systems to ensure data integrity across multiple data sources.
 - Optimized data processing workflows reducing manual processing time.
- **Cross-Platform Data Integration App** | *Flutter, Dart, Alexa Skills Kit, API Integration*
 - Built meal planning application for automated data processing for ingredient-based shopping list generation.
 - Integrated multiple APIs including Alexa Skills Kit for voice-activated data entry and retrieval.
 - Designed data flow architecture for cross-platform synchronization and real-time updates.

Education

- IBM Data Analyst Certificate – Coursera | 2025
- Master of Science- Coursework Completed | Southern Arkansas University | 2022
- Completed 27 graduate hours towards M.S. in Leadership Administration & Supervision
- Bachelor of Science | Freed-Hardeman University | 2013

Skills & Core Competencies

Data Engineering & Analytics

- Pipeline Development: ETL/ELT processes, data modeling, workflow automation
- Programming: SQL, Python, GoLang, JavaScript (for data processing)
- Databases: MySQL, PostgreSQL, Firebase, data warehousing
- Cloud Platforms: AWS (S3, RDS)
- Data Quality: Data cleaning, validation, monitoring, governance
- Visualization: Tableau, React-based dashboards, TypeScript for data interfaces
- Analytics Tools: Excel, Python (Pandas, NumPy), R, Tableau
- APIs & Integration: RESTful APIs, third-party integrations (Alexa Skills Kit, YouTube API)

Technical Skills

- Version Control: Git, GitHub, GitLab
- Testing: Unit Testing, Data Validation, PyTest
- Development: React.js, Node.js

Community and Leadership

- Volunteer Mentor/ *Hope Center Ministries* 2023-Present
 - Facilitate group discussions focused on personal growth, life skills, spiritual growth and reentry support.
 - Lead Bible studies each week that target addiction treatment and sobriety.
 - Provide goal-focused mentorship and life skills coaching to individuals who are re-entering the workforce, addressing employment barriers and supporting long-term recovery.