Caleb Tucker Dame

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Experience

Data Scientist II – SymphonyAI **Aug. 2026 – Present**
Remote Work

- Serve as primary technical point of contact for a Tier 1 U.S. bank, supporting AI-driven sanctions and PEP/adverse media screening models within its financial crimes compliance program.
- Lead improvements to model interpretability, improving reason codes derived from SHAP attributions to result in clear, actionable, and logical explanations for investigative partners and internal compliance.
- Author model documentation and intimately partner with the the client internal Model Risk Management team through internal validation: presenting & defending methodology to the model meet regulatory and compliance standards.

Senior Data Scientist – BlastPoint **Dec. 2025 – Aug. 2026**
Data Scientist – BlastPoint **Oct. 2023 – Nov 2025**
Remote Work

- Designed predictive models for strategic product marketing, churn prediction, and collections optimization used by credit unions and utility partners, directly impacting program adoption rates and retention strategies.
- Developed and maintained privacy-affirming federated prediction models, dynamically aggregating insights from internal data to develop dynamic, industry-wide product models while protecting client data privacy
- Built scalable internal tooling scripts to standardize data science processes, streamline project throughput, monitor model performance, and expose model interpretability clearly to end users.

Data Scientist – TransUnion **Feb. 2022 – Oct 2023**
Remote Work

- Shipped fraud detection models using LightGBM/XGBoost and maintained internal packages for measuring drift in fraud typologies with long maturity windows and estimating changes in risk prevalence over time in unlabeled data.
- Implemented and benchmarked advanced ML architectures (Autoencoders, Stacked Models, Graph Neural Networks) to research applications to identification of fraud networks.
- Led cross-team collaborations over the course of an acquisition, integrating newly acquired data assets to enrich features and model performance.

Data Engineer – M Science LLC **Jun. 2021 – Mar 2022**
Murray, UT

- Designed and maintained 15+ ETL pipelines in Databricks, Airflow, and Snowflake, processing 3.5 TB of transformed data daily for financial analysts.
- Built automated anomaly detection using clustering algorithms, increasing data purity by 10–15% and enabling real-time visualization in Tableau dashboards.

Machine Learning Researcher – Brigham Young University, Economics **Apr 2020 – Jul 2020**
Provo, UT

- Researched ML applications (XGBoost, Neural Networks, Naïve Bayes) to extract insights from census data and managed large-scale databases in MS SQL Server to finally reduce record-linking error by 80%.

Education

Johns Hopkins University – M.S. Artificial Intelligence **Aug 2022 – April 2027**
Brigham Young University – B.S. Applied and Computational Mathematics & Economics **Aug 2017 – April 2021**
Dean's List Honoree (2018, 2020)

Technical Skills

Programming & Data Science

- **Python:** Numpy, Scipy, Scikit-Learn, Pytorch, Tensorflow, StatsModels, Pandas, NLTK, transformers
- **SQL & Databases:** SQLite, PostgreSQL, Oracle, MongoDB
- **Big Data & Cloud:** Databricks, Apache Spark (*PySpark*), AWS (*Lambda, S3, EC2, DynamoDB, Redshift*), GCP
- **Other Languages**: JavaScript, Unix, HTML, STATA

Development and Tooling

- **Environments and Versioning:** Git, Docker, Conda, pyenv
- **Other Workflow Tooling:** Claude Code, Codex, Flask, FastAPI, Cron, MLFlow, Airflow, Tableau