Caleb Tucker Dame

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Experience

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

- Lead development of predictive models for customer targeting and churn prediction used by credit unions and utility partners, directly impacting program adoption rates and retention strategies.
- Lead and bring to market a privacy-affirming strategy of aggregating insights to develop generic, industry-wide product models as low by incorporating insights and trends present in client data.
- Build scalable internal tooling scripts to standardize data science processes, streamline project throughput, monitor model performance, and expose model interpretability to end users.

Data Scientist Consultant – Founder – Modulus Partners   **Jun. 2023 – Present**
Remote Work

- Built ML-driven lead qualification models that improved sales efficiency by eliminating 20-40% of low-quality meetings and increased top salesperson conversion rates 2-3x
- Designed and managed ongoing A/B testing programs to optimize marketing funnel performance and application outcomes
- Created and oversaw CRM integrations (HubSpot, Close, Zapier) and real-time dashboards to enable data-driven marketing decisions

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

- Developed fraud detection models using LightGBM/XGBoost and maintained Python packages for measuring drift in unlabeled data.
- Implemented advanced ML architectures (Autoencoders, Stacked Models, Graph Neural Networks) to research applications to identification of fraud networks.
- Led cross-team collaborations, 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 – Present**
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, Matplotlib, Scikit-Learn, Pytorch, Flask, Keras, Tensorflow, StatsModels, Pandas, NLTK
- **SQL & Databases:** SQLite, PostgreSQL, NoSQL
- **Big Data & Cloud:** Databricks, Apache Spark (*PySpark*), AWS (*Lambda, S3, EC2, DynamoDB, Redshift*), GCP
- **Other Languages**: JavaScript, C++, Unix Shell, HTML, STATA

Development and Tooling

- **Environments and Versioning:** Git, Docker, Conda, API Development
- **Data Visualization:** Tableau, Grafana, Matplotlib, Seaborn
- **Workflow Automation & MLOps:** Flask, Cron, AB Testing