

Chris Addy

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PROJECTS

Founder, aither.computer (aither.computer) 2024 — Present

- Building an ML observability and serving platform that unifies logging, deployment, and model explanation in a single developer-friendly interface.
- Rust backend with Python SDK — combining high-performance async infrastructure with ergonomic APIs for ML practitioners.
- Solving ML tooling fragmentation: one platform replacing the need for separate MLflow, model serving, and observability tools.

WORK EXPERIENCE

Engineering Manager, AI/ML June 2025 — Present
MNTN *Remote*

- Lead a team of 3 engineers while remaining hands-on, shipping 2 AI/ML products to production.
- Drove deliverability forecasting system to production, leading integration efforts for a model that predicts campaign budget spend and recommends targeting adjustments.
- Built media plan budget allocation engine from scratch, combining ML optimization with LLM-powered natural language explanations to help customers understand recommendations.
- Developed internal Vertex AI tooling and AI efficiency utilities that increased team shipping velocity from weekly to multiple PRs per engineer per day.

Machine Learning Architect January 2025 — June 2025
URBN *Philadelphia, PA*

- Architected migration from Airflow to Flyte, improving developer experience with type-safe workflows and reducing pipeline debugging time for ML engineers.
- Redesigned MLflow architecture to standardize experiment tracking, enabling reproducible ML workflows and self-service model deployment for data scientists.
- Built internal ML platform tooling with Pandera and Pydantic for schema validation, giving engineers confidence in data pipeline correctness.
- Created DuckDB-based data processing utilities that simplified analyst workflows and eliminated pandas memory issues in production pipelines.

Head of Machine Learning Engineering, Generative AI, eCommerce May 2023 — December 2024
Pepsico *Philadelphia, PA*

- Built ML platform that reduced pipeline development from months to days, enabling 3x more data scientists to ship models independently.
- Designed self-service ML infrastructure that expanded the number of analysts building production pipelines by 200%.
- Founded Generative AI Lab with 8 engineers, establishing internal tooling patterns for LLM integration and prompt engineering workflows.
- Re-architected MLOps lifecycle with standardized CI/CD templates and deployment automation, cutting model deployment time by 300%.
- Created internal Python SDK for ML workflows that became the standard interface for model training, evaluation, and serving.

Principal Data Scientist & Machine Learning Engineer, eCommerce July 2021 — May 2023
Pepsico *Philadelphia, PA*

- Architected KubeFlow-based ML platform that standardized the path from data ingestion to model serving, reducing time-to-delivery by 50%.

- Built reusable pipeline components and templates that enabled rapid prototyping, cutting proof-of-concept time to three weeks.
- Designed unified data processing framework that standardized ingestion, transformation, and feature engineering across teams.
- Optimized AWS Batch infrastructure for ML training workloads, reducing compute costs and improving job scheduling efficiency.

Senior & Lead Data Scientist

June 2020 — April 2021

Penn Interactive

Philadelphia, PA

- Founded ML engineering function, building inference infrastructure and recommendation APIs that supported 75k users at launch.
- Developed ML serving infrastructure with RESTful APIs and real-time monitoring via DataDog dashboards.

Data Scientist

November 2018 — October 2019

Heavywater

Philadelphia, PA

- Built document classification pipeline handling 300+ document types with 96% accuracy, increasing processing throughput 10x.

EDUCATION

Temple University

Philadelphia, PA

*Master of Science, Statistics***Lehigh University**

Bethlehem, PA

Bachelor of Arts, Economics