

Evan Trabitz

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SUMMARY

AI engineer specializing in adversarial domains where the subject actively evades detection, working across the full AI/ML spectrum from classical classifiers to agentic LLM workflows, applied in fraud detection and counter-trafficking investigations. Currently building greenfield AI infrastructure and evaluation standards.

EXPERIENCE

BWE (Bellwether Enterprise)

August 2026 - Present

AI Engineer

Greenfield AI team building the firm's first production AI systems

- Established the AI team's first observability standard (OpenTelemetry tracing into MLflow on Databricks), instrumenting agentic workflows for per-span latency, cost, and failure attribution
- Engineered the company's enterprise search ingesting over 10 TB of documents from three source systems, part of the retrieval layer backing its Claude Cowork deployment
- Developed the golden dataset and evaluation harness for enterprise search, benchmarking multiple retrieval strategies and embedding models to select the production configuration (Cohere Parse, hybrid BM25+dense, measured by recall@10)
- Built MCP servers for enterprise search and Databricks, exposing corporate data for agents used by origination and servicing teams

TRSS (Thomson Reuters Special Services)

July 2025 - July 2026

Data Scientist (Machine Learning Engineering)

On Spotlight, an ML platform supporting counter-human-trafficking investigations

- Identified the root cause of systemic profile-clustering failures by analyzing 1.6B+ log records in Snowflake and returning the diagnosis in 48 hours, directly shaping the pipeline's ML redesign
- Owned evaluation standards for agentic LLM workflows using DeepEval and Arize Phoenix, piloting the framework on a production project ahead of company-wide rollout
- Constructed a ground-truth dataset of 500+ profiles spanning 174K+ ads with varied, non-resolving identifiers, and built the team's annotation infrastructure from scratch (Label Studio, trained annotators, 2,500+ labeled pairs)
- Designed a profile-matching evaluation for resolving ads to a common poster despite rotated contact details, shifting locations, and obfuscated text, comparing a gradient-boosted classifier against an LLM-based prototype on a hold-out isolated from training contamination; built and deployed the winner to production (XGBoost, 0.94 F1)
- Engineered a local pipeline test harness enabling component-level testing and production run replication for the first time, cutting iteration time by 3x, with a companion visualization tool for tracing profile evolution across runs
- Formed and led DAWN Cloud, a cloud enablement strategy overhauling how the technology team interacts with cloud resources, authoring technical recommendations and driving implementation discussions with the CTO, Director of Data Science, and Head of IT

ICA (International Consulting Associates)

January 2024 - July 2025

Machine Learning Engineer III (Team Lead)

September 2024 - July 2025

Machine Learning Engineer I

January 2024 - September 2024

ML platform surfacing misrepresentation, noncompliance, and fraud signals for FDA reviewers

- Designed and built an AWS inference pipeline for alert generation on medical device reviews in 7 weeks
- Delivered critical data to the Secretary of Health and Human Services, reducing data processing time by 97.6%
- Productionized an image captioning/categorizing system, automating content tagging, alert generation, and verification
- Developed ML prototypes, including an NLQ-to-SQL system with injection prevention, output validation, and scope restriction enforced by a tree-search parser over serialized query structures

TECHNICAL SKILLS

Languages: Python, SQL, TypeScript/JavaScript, Go, C++, Rust

AI & LLMs: Transformers, RAG, LoRA/DoRA, Anthropic API, OpenAI API, Gemini API, LangChain, Hugging Face

Evaluation: Inspect, DeepEval, Arize Phoenix, MLflow

ML & Data: XGBoost, Label Studio, Pandas, NumPy, PyTorch

DevOps & Cloud: AWS, Azure, Terraform, Bicep, Docker, Kubernetes, Git, FastAPI, FastMCP

Databases: Databricks, Snowflake, Postgres, SQLite, SQLAlchemy, SQLModel

EDUCATION

Washington University in St. Louis

August 2019 - May 2023

BSc Computer Science

Graduated Cum Laude, GPA: 3.84

Minors in Philosophy and Physics

Semester study abroad at University of Copenhagen (Spring 2022)