

Harrison M. Smith

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AI Engineer

PROFESSIONAL SUMMARY

AI-focused engineer with hands-on production experience building RAG pipelines, multi-model LLM orchestration, and ML data pipelines, backed by 10+ years of combined technical experience (2015–present) and an M.S. in Applied Artificial Intelligence (September 2026). Builds full-stack systems integrating local and hosted LLMs (Claude, Gemini, ChatGPT), automates data ingestion and evaluation for a production AI agent, and works daily at the intersection of model behavior and deployable software. Actively growing MLOps and cloud-native deployment depth to match platform-scale AI engineering roles.

AI / ML TECHNICAL SKILLS

- **LLM & RAG:** RAG architecture design, prompt engineering, multi-model API integration (Claude, Gemini, OpenAI), local LLM hosting (Ollama, KoboldCpp), agentic tool-use orchestration
- **Modeling & Evaluation:** TensorFlow, PyTorch, ML.NET, model training and evaluation metrics, classification models, human-in-the-loop evaluation frameworks
- **Data Engineering:** ETL pipeline design, data sanitization, feature preparation, SQL/BigQuery, Python (pandas, Jupyter)
- **Engineering & Deployment:** Python, JavaScript, C#, REST API design, Git, GitHub Actions CI/CD, Google Cloud Platform, Amazon Web Services, Linux

PROFESSIONAL EXPERIENCE

Business Intelligence Analyst — Blytz

November 2025 – Present

- Built and maintained an evaluation framework for Betzy, Blytz's production AI agent, reducing tool-execution errors, through systematic human-in-the-loop review, prompt refinement, and output validation — direct experience measuring model accuracy and drift in production.
- Delivered BigQuery-backed data pipelines and dashboards for executives and cross-functional teams, translating raw enterprise data into decision-ready outputs.
- Pulling in data through ETL pipelines from various partners including HubSpot, Payment Processors, and other tools.

Software & IT Services — Common Thread

March 2024 – Present

- Built and maintained backend services and SQL systems for a variety of clients, independently owning reliability with no platform team backstop.

Data Analyst & AI Trainer — Salt Lake Community College

May 2023 – November 2025

- Applied data science principles — sanitization, ETL, model training — in Jupyter, and engineered SQL/JavaScript-based visualizations.

Earlier Technical Roles — Hill Air Force Base, Instructure (Canvas), Microsoft, Control4

2015 – 2023

- Software development, data, and systems support across enterprise and defense environments; full history at linkedin.com/in/hsmith-dev.

AI SYSTEMS BUILT

- **Agent AI & LLM Orchestration Platform:** engineered a full-stack JavaScript application integrating RAG architecture, local LLMs (Ollama, KoboldCpp), and hosted model APIs to orchestrate complex, multi-step tool-use logic — architecture designed, built, and evaluated end-to-end.
- **ML Classification Pipeline:** executed full-lifecycle model development — data sanitization, ETL, training, evaluation — in Jupyter and ML.NET, deploying a working image-classification application.
- **CI/CD Deployment Pipeline (ThunderBeast.Studio):** built GitHub Actions pipelines compiling and deploying production builds directly to a live website, owning the deployment path from commit to production.

EDUCATION

M.S., Applied Artificial Intelligence — Neumont University, Salt Lake City, UT

Expected September 2026

- Model training and evaluation with TensorFlow, PyTorch, and ML.NET; RAG architecture implementation; full ETL pipeline and data-sanitization coursework.

B.S., Computer Science — Weber State University, Ogden, UT

December 2022

- Graduate-level data science coursework completed as an undergraduate: data cleaning, predictive modeling, mathematical frameworks.