

# Anthony Berghammer

berghammer.anthony.j@gmail.com | (828) 460-3894 | [LinkedIn](#) | [GitHub](#)

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AI/ML Engineer with 5+ years building ML systems, LLM agents, and data infrastructure. Focused on multi-agent systems, RAG, and MCP. Background in federal healthcare, financial services, and public policy.

## EXPERIENCE

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### Research Data Scientist — RTI International

Feb 2022 – Present

- Led AI team developing SAS-to-Python conversion tools, reducing projected conversion costs by 60%; established frameworks supporting adoption across 50+ projects
- Pioneered company's first MCP implementations using pydantic\_ai and FastMCP; built agentic web scraper with multi-agent orchestration to extract contact data from 10K+ structurally diverse websites, saving 1,000+ analyst hours
- Led team of 4 developers on large-scale SAS-to-Python migration for federal healthcare client; converted 600+ scripts to dbt/Snowpark on Snowflake, accelerating delivery timeline 2x while modernizing data infrastructure
- Architected cloud infrastructure (Terraform, Docker, AWS) and CI/CD templates enabling rapid AI application deployment; supports 30+ prototypes in production across the organization
- Designed LLM evaluation framework using LLM-as-a-judge with ELO-style tournaments; benchmarked OpenAI, Bedrock, and open-source models against weighted metrics (functionality, readability, correctness) to optimize code translation quality
- Engineered semantic search system with 90%+ accuracy using HuggingFace and LanceDB, reducing NIH grant misclassification by 25% on \$1B+ portfolio
- Built text classification models (PyTorch, HuggingFace) for Bureau of Justice Statistics to classify dispatch events, enabling national reporting
- Developed CI/CD data pipeline for IoT wearable sensor data on AWS (Python, Docker, DuckDB) for NIH research grant

### Senior Decision Scientist — USAA

Dec 2020 – Feb 2022

- Architected NLP compliance detection system increasing error detection 6x while reducing false positives 40%, processing thousands of customer interactions daily
- Built transformer-based similarity model (HuggingFace) for sales practice error detection, reducing manual review 70% while maintaining 95% precision

### Data Scientist — EY

Jun 2019 – Dec 2020

- Built demand forecasting solution (R, Azure ML) for manufacturing clients, achieving 15% MAPE improvement over baseline
- Developed COVID-19 outbreak detection system (Python, Airflow) processing thousands of news stories daily for public health decisions

## SKILLS

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**AI/ML:** LLM Agents, Multi-Agent Systems, RAG, MCP, LangChain, HuggingFace, PyTorch, OpenAI, Bedrock, Ollama

**Infrastructure:** AWS (ECS, ECR, Bedrock), Azure, Terraform, Docker, CI/CD, GitHub Actions, Airflow

**Data:** Python, SQL, R, Snowflake, dbt, Snowpark, PostgreSQL, DuckDB, LanceDB

## EDUCATION

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**M.S. Analytics**, NC State University (Institute for Advanced Analytics)

May 2019

**MBA, Business Analytics**, Appalachian State University

Aug 2017

**B.S. Marketing**, Appalachian State University

May 2012