ERIC UEHLING

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PROFESSIONAL SUMMARY

I solve problems using data automation and predictive modeling. My expertise spans the full data lifecycle—from collection and cleaning to analysis and deployment. In my current role, I specialize in leveraging econometric models to predict financial risks and assess the health of companies and their supply chains.

SKILLS

Technical: Python, SQL, R, Git, Docker, Kubernetes, MLOps, AWS, Azure, Pandas, Numpy, Scikit-Learn, Pytorch
Machine Learning & AI: Predictive Modeling, Boosting, LLM Integration, NLP, Clustering, Neural Networks
Data Engineering: ETL Pipelines, Spark, Databricks, Snowflake, Hadoop, Database Design, Cloud Deployment
Data Analysis: Data Visualization, Regression Analysis, Data Exploration, Statistical Analysis, Geocoding, OCR
Professional: Cross-Functional Collaboration, Non-Technical Stakeholder Communication, Jira, Confluence

PROFESSIONAL EXPERIENCE

Data Scientist — *Exiger — McLean, VA*   August 2024 - Present

- Collaborated on a cross-functional team that deployed a stock volatility XGBoost regression based on geospatial tariff ratios to assess market impacts of recent trade policies and monitor risk potential onto the supply chain.
- Saved $250,000 annually by implementing an end-to-end Python automation system with LLM integration that generated risk reports, integrating both Azure and AWS infrastructure to redirect 100+ researchers.
- Developed a RAG model using Docker with ChatGPT and LangChain integrated with a ChromaDB vector database, leveraging Databricks and AWS S3, EC2, ECS, and Lambda to process unstructured data at scale.
- Helped build an interpretable MLOps pipeline using Spark and Kubernetes to predict the financial health of 50,000+ global entities by analyzing trade and geospatial risk indicators in a Random Forest classifier.

Data Science Intern — *Exiger — McLean, VA*   May 2024 - August 2024

- Constructed a standardized prefix/suffix classification system separated by character type and language from a dataset of 10M international company names, improving entity fuzzy matching by 30% in A/B testing.
- Implemented an address standardization tool with ArcGIS API that enhanced supply chain origin identification and classification through Bayesian testing, resulting in a 21% reduction in geocoding errors.

Undergraduate Researcher — *Virginia Tech — Blacksburg, VA*   January 2024 - August 2024

- Designed a scalable MySQL time-series database to store 1M+ Twitter interactions, implementing comprehensive ARIMA modeling to analyze seasonal tweeting trends and network dynamics.
- Built an ETL pipeline with custom web scraping scripts using BeautifulSoup and Playwright to crawl academic interactions and populate the database with structured data.

Software Engineer Intern — *AECOM — Germantown, MD*   May 2023 - December 2023

- Created an efficient Python + AWS Lambda pipeline that processed 100GB+ of daily accelerometer data into a PostgreSQL timeseries database, reducing processing time by 70%.

EDUCATION

Virginia Polytechnic Institute and State University — *Blacksburg, VA*   August 2021 - May 2025

Bachelor of Science, Computer Science, *Option: Data-Centric Computing*
Bachelor of Arts, Economics, *Option: Managerial and Data Science*

- Honors: Omicron Delta Epsilon (International Honor Society in Economics)

CERTIFICATIONS

KNIME Data Science Professional — *[View Certificate](#)*	March 2025
Weaviate Vector Databases Professional — *[View Certificate](#)*	March 2025
Anaconda Python for Data Science Professional — *[View Certificate](#)*	June 2024
Microsoft & LinkedIn: Career Essentials in Data Analysis — *[View Certificate](#)*	June 2024
Microsoft & LinkedIn: Career Essentials in Generative AI — *[View Certificate](#)*	June 2024