ERIC UEHLING

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PROFESSIONAL SUMMARY

Data scientist specializing in supply chain risk analysis and generative AI. My expertise spans machine learning, data engineering, and predictive analytics to solve complex business problems. I excel at translating technical solutions into actionable insights and presenting findings directly to stakeholders.

SKILLS

Core Programming & Tools: Python, Pandas, NumPy, TensorFlow, PyTorch, Scikit-learn, SQL, Git, REST API
Machine Learning & AI: Generative AI, MLOps, Natural Language Processing, Deep Learning, Computer Vision
Cloud Computing: AWS SageMaker, AWS S3, AWS EC2, AWS Lambda, Azure, Docker, Kubernetes, CI/CD
Database Management: PostgreSQL, MongoDB, MySQL, Apache Spark, Apache Hadoop, Snowflake, ETL
Analytics & Visualization: Tableau, Power BI, Matplotlib, Statistical Analysis, Regression, Time-series
Professional Skills: Collaboration, Stakeholder Communication, Jira, Confluence, Agile Development, Scrum

PROFESSIONAL EXPERIENCE

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

- Deployed a stock volatility XGBoost regression using AWS SageMaker based on geospatial tariff ratios to assess market impacts of recent trade policies and monitor supply chain risk potential, bringing in 100+ new B2B clients.
- Saved $250,000 annually by implementing an end-to-end Python automation system with CI/CD that calls the ChatGPT API to generate risk reports, integrating Azure and AWS infrastructure to redirect 50+ researchers.
- Architected scalable Hadoop MapReduce pipelines processing 10TB+ daily investor/LLC registration data for DoD supply chain monitoring, automating foreign entity detection and reducing review time by 80%.
- Delivered interactive Tableau geospatial visualizations analyzing tariff impacts on client supply chain shipment data, presenting real-time cost optimization insights and recommendations directly to client leadership teams.

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.
- Deployed a REST API and web interface enabling non-technical internal staff to perform fuzzy matching operations, integrating AWS Lambda and DynamoDB with guided self-service tools for business users.

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

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

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

- Launched an efficient Python + AWS Lambda pipeline that processed 100GB+ of daily accelerometer data into a PostgreSQL time-series 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)

VOLUNTEERING

Co-Founder — *Hokie Data Forge — Blacksburg, VA* January 2024 - May 2025

- Co-founded the Hokie Data Forge, establishing Virginia Tech's first student-led service providing data scraping, database design, storage solutions, and cleaning to help students prepare datasets for capstone projects.
- Led club operations and managed volunteer team to deliver weekly workshops and personalized mentoring for capstone projects, partnering with the Economics and Psychology departments to support 50+ students annually.