

Michael Ieraci

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Professional Summary

Software Engineer (AI/ML) with 5+ years of experience building scalable data and machine learning pipelines across healthcare, finance, and applied computer vision. Experienced in end-to-end workflows spanning ingestion, feature engineering, data quality validation, and model evaluation, with a focus on reproducible engineering practices for complex systems. Strong in Python, Spark, Databricks, and cloud environments (AWS, Azure), and eager to contribute these skills to applied AI research and experimentation in a collaborative lab setting.

Professional Experience

XponentL Data — Remote Dec 2025 – Present

Software Engineer, AI/ML

- Build and maintain Databricks + Spark pipelines to transform large-scale EHR data into ML-ready, OMOP-aligned formats
- Develop Python/PySpark transformations for feature engineering, data quality checks, and analytics enablement
- Support AI-assisted automapping workflows to standardize heterogeneous healthcare schemas at scale

Audible Sight — Remote Apr 2025 – Jan 2026

AI Engineer (Volunteer)

- Automated Azure-based data processing pipelines to prepare high-dimensional image datasets for computer vision training
- Developed SQL + Python analyses to deliver actionable insights supporting audio description optimization
- Evaluated and benchmarked large language models for generating audio descriptions for visually impaired users

Invictus Capital Partners — Washington, DC Sep 2021 – Dec 2025

Data Analyst

- Engineered Spark + Databricks ETL pipelines for multi-terabyte financial datasets supporting analytics and modeling
- Built Python-based validation and reconciliation workflows, reducing manual processing time by 40%
- Developed KPI dashboards and reporting frameworks for portfolio monitoring and risk analysis

NewDay USA — Fulton, MD Jun 2020 – Sep 2021

Senior Data Analyst

- Conducted A/B testing and experimental analysis on digital and TV advertising to optimize customer acquisition
- Built SQL-driven analytics pipelines and dashboards to measure marketing campaign performance and ROI

Education

University of Virginia 2025 – Present

M.S. Data Science (GPA: 4.0)

University at Buffalo

B.S. Business Administration, Financial Analysis

Technical Skills

Certifications: AWS Certified Cloud Practitioner, AWS AI Practitioner

Languages: Python, SQL, PySpark

Data & ML: Spark, Databricks, PyTorch, Delta Lake, MLflow, scikit-learn, CNNs, Transfer Learning, LLM Evaluation

Cloud: AWS (S3, Lambda, SageMaker, IAM), Azure (Blob Storage, Data Factory)

Analytics: Feature Engineering, Model Evaluation, A/B Testing, Data Validation

Tools: Git, CI/CD (GitHub Actions), Power BI