

Hayk Grigorian

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EDUCATION

Muhlenberg College
B.S. in Computer Science

Aug. 2022 – May 2026
Allentown, PA

EXPERIENCE

Equity Research Analyst
Equity Risk Sciences

May 2026 – Present
Providence, RI

- Build and maintain data pipelines for quantitative research across equities, fixed income, ETFs, commodities, and alternative assets.
- Apply NLP methods to earnings transcripts to measure sentiment and narrative shifts, supporting feature-generation and risk-analytics workflows used in active research.

Data Engineering Intern
Two Worlds Capital LLC

Feb. 2026 – Apr. 2026
Remote (NYC)

- Built data aggregation, cleaning, preprocessing, and feature-generation pipelines for financial and macroeconomic datasets across multiple asset classes.
- Automated ingestion and validation of large time-series data sources to improve research throughput.

Undergraduate Researcher, Machine Learning
Muhlenberg College

Sep. 2025 – Feb. 2026
Allentown, PA

- Proposed Selective Temporal Training (STT) to pretrain language models on temporally bounded corpora and reduce modern bias.
- Built a 90GB historical text corpus and trained transformer language models from scratch up to 1.2B parameters using PyTorch, Hugging Face, and A100/H100 GPUs.
- Developed tokenization, training, and evaluation pipelines for large-scale historical language modeling.

Software Engineer Intern
Quadcode

Jun. 2024 – Aug. 2024
Remote (Cyprus)

- Developed a Telegram trading-signal bot for stocks, crypto, forex, and commodities using Python and financial APIs.
 - Implemented SMA, EMA, and reversal-based trading logic with scheduling and background execution using Asyncio, Threading, and APScheduler.
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PROJECTS

TimeCapsuleLLM

| *Python, PyTorch, Hugging Face, Transformers*

- Built an open-source historical language model project spanning dataset creation, tokenizer training, model pretraining, and evaluation.
 - Trained billion-parameter transformer models on A100/H100 GPUs and grew the project to 1,800+ GitHub stars.
 - Earned coverage from [Ars Technica](#) and [Popular Science](#), leading to a research collaboration with Georgia State University.
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PUBLICATIONS

TimeCapsule: Generative Hallucination as a Method for Historical Sensemaking
ACM Creativity & Cognition (20% acceptance)

Jul. 2026
London, UK

- Accepted to ACM Creativity & Cognition 2026; presenting in London, July 2026.
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TECHNICAL SKILLS

Languages: Python, Java, JavaScript **Machine Learning:** PyTorch, Hugging Face Transformers, tokenization, model pretraining, evaluation pipelines **Data & Systems:** pandas, NumPy, REST APIs, ETL, async systems, Git, Linux, cloud GPU infrastructure