Evan P. Taylor

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Education

Boston College — Chestnut Hill, MA
Mathematics B.A., Computer Science B.A. — *Aug. 2021 – May 2025*

- Relevant courses: Statistics, Machine Learning, Deep Learning, Computer Vision, Linear Algebra, Differential Equations, Differential Geometry, Large Scale Data Processing

The Browning School — New York, NY
High School; Graduated Cum Laude — *Aug. 2017 – May 2021*

- SAT: 1510

Experience

Software Engineer Intern — Feb 2025-current
PeakSpan Capital — *Remote*

- Designed and developed an in-house AI agent, 'Anna,' leveraging natural language processing (NLP) and LLM capabilities, enabling seamless execution of over *15* proprietary functions to accelerate analyst research across *1,000+* companies and *millions* of articles—slashing research time by approximately *10* hours per week.
- Architected a scalable state-graph framework (LangGraph) to power multi-step reasoning and dynamic function-calling, enhancing the agent's ability to handle complex, chained workflows with precision.
- Designed and implemented a Retrieval-Augmented Generation (RAG) pipeline with an optimized API endpoint, processing a repository of *500+* scraped articles to deliver context-aware insights, reducing analyst article retrieval time by *5* hours weekly.
- Integrated a deep research feature, allowing for the generation of in-depth analytical reports—such as company profiles—empowering investment teams with actionable insights and accelerating strategic decision-making.

Data Engineer Intern — June 2024 - September 2024
Driftwood Heritage Holdings — *Remote*

- Independently developed and deployed a web-scraping Flask application on AWS (Elastic Beanstalk), eliminating the need for an *$1,800/year* third-party service by replicating its functionality in-house.
- Automated lead acquisition workflows, reducing data collection times from *5-10* minutes per task to just *one minute*, saving approximately *30* man-hours per week and substantially cutting operational costs.
- Designed and implemented a data pipeline that automated the transfer of web-scraped lead data from the Flask web app to our database in Airtable.
- Designed an intuitive user interface using CSS and JavaScript, and integrated Selenium and OpenAI's API for automated web scraping, ensuring robust and cost-effective data retrieval.

Prompt Engineer — Feb 2024 - June 2024
Scale AI — *Remote*

- Assisted in training and evaluating generative AI models using reinforcement learning through human feedback (RLHF) including writing SQL queries, robust test cases, mathematical proofs, and fitting models to data.
- Helped test and refine the 'chain of thought' reasoning logic used in OpenAI's new o1 and o3 series of models.

Projects

Gradient Descent on Riemannian Manifolds | *Research Paper* — April 2024

- Researched and theoretically verified a novel adaptation of the gradient descent algorithm that utilizes the intrinsic geometric properties of Riemannian manifolds.
- Leveraged differential geometry constructs such as geodesics and exponential maps, enabling efficient minimization paths.