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, Real Analysis

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 internal chatbot 'Anna,' integrating over 10 proprietary APIs to enhance analyst research across 1,000+ companies and millions of articles, reducing analyst research time by approximately 10 hours per week.
- Utilized a scalable state-graph (LangGraph), allowing for chained, multi-step reasoning and function-calling.
- Developed a Retrieval-Augmented Generation (RAG) pipeline and API endpoint for a repository of 500+ scraped articles, delivering context-rich insights and cutting analyst article search time by 5 hours weekly.
- Prototyped an advanced search AI endpoint, streamlining complex queries and reducing manual search effort for senior leadership team requests.

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 1 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 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.