

# Evan P. Taylor

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## EDUCATION

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### Boston College

*Mathematics B.A., Computer Science B.A.*

Chestnut Hill, MA

*Aug. 2021 – May 2025*

- Relevant courses: Statistics, Machine Learning, Deep Learning, Computer Vision, Linear Algebra, Differential Equations, Differential Geometry, Real Analysis

### The Browning School

*High School; Graduated Cum Laude*

New York, NY

*Aug. 2017 – May 2021*

- SAT: 1510

## EXPERIENCE

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### Data Engineer Intern

*Driftwood Heritage Holdings*

June 2024 - September 2024

*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.

### Generative AI Model Trainer and Evaluator

*Scale AI*

Feb 2024 - June 2024

*Remote*

- Assisted in training and evaluating generative AI models using reinforcement learning from human feedback (RLHF) including writing SQL queries, 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.
- Formulated complex, quantitative queries tailored to test the reliability and adaptability of the models.
- Rigorously reviewed model responses to check for logical errors and hallucinations—involving writing robust test cases to confirm generated code works efficiently and effectively.

## PROJECTS

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### 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.

### GitHub Repository Chat | *Python*

December 2023

- Implemented a conversational interface allowing users to interact with GitHub repositories using natural language using Retrieval Augmented Generation (RAG) techniques.
- Utilized the LangChain framework to streamline document loading, parsing, and code splitting for efficient embedding and Chroma's vector database to store and quickly retrieve code chunks during user interactions.
- Integrated OpenAI's text-embedding model to embed processed chunks and their GPT-4 model for chat.