

Andrew Tremante

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Education

Amherst College, Amherst, MA

Graduation: May 2026

Bachelor of Arts: Computer Science (Latin Honors) & Mathematics

GPA: 3.91 | SAT: 1570

Relevant Coursework:

- Machine Learning, Artificial Intelligence, Natural Language Processing, Data Science, Data Structures & Algorithms, Databases, Computer Systems, Linear Algebra, Multivariable Calculus, Probability

Leadership & Extracurriculars:

- President, Sports Business & Analytics Club
- Men's Varsity Soccer — 2024 NCAA DIII National Champion; 2022 & 2023 NESCAC Tournament Champions; 2023 & 2024 NESCAC All-Academic Honors

Experience

Gregory S. Call Academic Intern, *Incoming Senior Honors Thesis Student*

June 2025 - Present

TrueData, *Incoming AI/ML Engineer Intern*

May 2025 - Present

Philadelphia Union (Major League Soccer)

May 2024 - December 2024

Data Science Intern

- Managed data within Databricks and Amazon Web Services (AWS) S3 environments using Apache Spark to automate data aggregation and processing pipelines.
- Developed Python, R, and SQL scripts to identify data-driven insights and create visualizations to support team performance.
- Implemented unsupervised learning algorithms and neural networks using scikit-learn and PyTorch to assist in player recruitment within Shiny platform.

Projects

Match Prediction Model | *Deep Learning Project*

- Developed a Convolutional Neural Network (CNN) using PyTorch to predict professional soccer match outcomes based on historical betting data (2002-2023).
- Improved prediction accuracy by optimizing hyperparameters and analyzing model performance metrics.

Personal Website | *Full Stack Web Development Project*

- Developed a personal portfolio website using React, Django, and PostgreSQL.
- Implemented custom designs and 3D visualizations using Tailwind CSS and Three.js.

Technical Skills

Languages: Python, SQL, R, Scala, Java, JavaScript, C, HTML, CSS

Cloud & Big Data: AWS (S3, EC2), Spark (PySpark), Snowflake, Airflow, Databricks, ETL Pipelines, PostgreSQL, MySQL

AI & ML: PyTorch, scikit-learn, XGBoost, OpenAI, AWS SageMaker, AWS Bedrock

Data Science: Hypothesis Testing, A/B Testing, Markov Chains, pandas, NumPy, Matplotlib, SciPy, Tableau, Sigma

Development: React.js, Django, Tailwind CSS

Tools: VSCode, PyCharm, IntelliJ, Jupyter, Zeppelin, GitHub, Bitbucket, Jira, Slack, Notion

Familiar With: CI/CD Pipelines, Terraform, AWS EKS, AWS Lambda, Avro