

Emmett Bicker

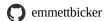


in emmettbicker



emmettbicker.github.io

Computer Science + Math



EDUCATION -

Stony Brook University

Stony Brook, NY

B.S. Computer Science (Honors Program) + B.S. Applied Mathematics

August 2024-May 2027

<u>Hunter College High School</u>

New York City, NY

4.0 GPA, FRC Robotics Team Co-Captain, AI-Day Founder and Co-Director,

September 2017-June 2024

FTC Team Founder, Coursework: AP BC Calculus, AP Physics C: Mechanics, AP Computer Science A, AP Statistics

Online Coursework Virtual

Harvard's CS50x: Intro to Computer Science, Stanford's Machine Learning,

August 2021-Present

Andrew Ng's Five-Course Deep Learning Specialization, DeepLearning.AI's NLP with Attention Models

EXPERIENCE -



Princeton University

Remote

Data Visualization Project Assistant

July 2024-Present

· Assistant on Project awesoME! - Representing You Through the Lens of Taylor Swift

AllianceBernstein

New York, NY

B SWE Intern / Agentic AI Development Intern

June 2024-August 2024

- · Pitched, designed, and implemented an agentic AI framework for code translation
- · Implemented a C# framework that accelerated database information retrieval by 50x
- · Presented demo of agentic AI framework to company leadership, including COO and Chief AI Officer

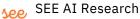
Steel City Codes Chief Operating Officer International

August 2023-August 2024

· Led 1,000+ volunteers delivering free CS education to 5,000+ underserved youth globally

- · Secured \$30,000 in partnerships with sponsors and nonprofit organizations
- · Transitioned to Advisory Board after successful COO tenure

RESEARCH -



Remote

Lead Researcher, Machine Learning Lab

July 2024-Present

· Researching advanced training methods for question-answering using data generation and reinforcement learning



Stony Brook University

Stony Brook, NY

Natural Language Processing Researcher

August 2024-Present

· Researching agentic systems to optimize plan adaptation and dependency analysis



NYU Grossman School of Medicine

New York, NY

Computational Neuroscience Research Intern, Basu Lab

December 2022-June 2024

- · Co-authored forthcoming paper in Nature Communications under Dr. Jason Moore
- · Developed data visualization GUI to assess and demonstrate research tool efficacy
- · Explored training computer vision models to classify different types of dendrites

AWARDS ·

General: Presidential Volunteer Service Award: Gold (x2), HCHS Mildred Busch Award, HCHS Community Service Award Programming: American Computer Science League: NYC First Place, USACO Silver Division

Languages: ₱ Python, ﴿ Java, 」s HTML / CSS / JavaScript, ⓒ C#, ⓒ ⓒ C/C++, ♠ Rust, SQL, ♠ MATLAB

Libraries: Numpy, Pandas, PyTorch, Tensorflow, Matplotlib, LangGraph, PyTorch, PyQt5, OpenCV, Flask