


 emmettbicker@gmail.com

 emmettbicker.github.io

# Emmett Bicker

Computer Science + Math

 emmettbicker

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## EDUCATION

### Stony Brook University

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

Stony Brook, NY

*August 2024-May 2027*

### Hunter College High School

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

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

New York City, NY

*September 2017-June 2024*

### Online Coursework

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

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

Virtual

*August 2021-Present*

## EXPERIENCE



Princeton University

*Data Visualization Project Assistant*

Remote

*July 2024-Present*

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



AllianceBernstein

*SWE Intern / Agentic AI Development Intern*

New York, NY

*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



SEE AI Research

*Lead Researcher, Machine Learning Lab*

Remote

*July 2024-Present*

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



Stony Brook University

*Natural Language Processing Researcher*

Stony Brook, NY

*August 2024-Present*

- Researching agentic systems to optimize plan adaptation and dependency analysis



NYU Grossman School of Medicine

*Computational Neuroscience Research Intern, Basu Lab*

New York, NY

*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

## SKILLS

Languages:  Python,  Java,  HTML / CSS / JavaScript,  C#,  C/C++,  Rust,  SQL,  MATLAB

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