

✉ emmettbicker@gmail.com

🏠 emmettbicker.github.io

Emmett Bicker

Computer Science + Math

in emmettbicker

🐙 emmettbicker

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

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

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