Emmett Bicker

Computer Science + Math

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EDUCATION

Stony Brook University — Stony Brook, NY
B.S. Computer Science (Honors Program) + B.S. Applied Mathematics — *August 2024-May 2027*

Hunter College High School — 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, Hugging Face Reinforcement Learning Course

EXPERIENCE

Princeton University — Remote
Data Visualization Project Assistant — *July 2024-Present*
· Assistant on Project awesoME! - Representing You Through the Lens of Taylor Swift
· Collaborated under the guidance of Day Yi

SEE AI Research — Remote
Machine Learning Research — *July 2024-Present*

AllianceBernstein — New York, NY
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

NYU Grossman School of Medicine — New York, NY
Computational Neuroscience Research Intern, Basu Lab — *December 2022-June 2024*
· Engineered interactive GUI for motion correction of calcium-imaging videos in neuroscience research
· Developed data visualization GUI to assess and demonstrate research tool efficacy
· Co-authored forthcoming paper in Nature portfolio journal under Dr. Jason Moore

Steel City Codes — International
Chief Operating Officer — *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
· Expanded program to 11 new cities across 4 countries
· Transitioned to Advisory Board after successful COO tenure

MIT Lincoln Lab — Cambridge, MA
Beaverworks Summer Institute: Autonomous RACECAR Course — *July 2023-August 2023*

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