Emmett Bicker

Computer Science and Machine Learning Programmer

New York, New York
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EXPERIENCE

FRC Robotics Team, Hunter College High School — *Programming and Data Analysis Lead*

April 2022 - PRESENT

Created and directed a competition data analysis team, programming a spreadsheet to analyze data and instructing other students on how to gather valuable information on other robots

Coordinated the programming team, assigning separate coding assignments to students and teaching them how to program the robot

Steel City Codes, NYC— *Volunteer Java/Python Teacher*

October 2021 - PRESENT

Taught elementary-middle school students programming classes, cultivating their ability and interest in computer science

Followed a given curriculum to teach both Java and Python

EDUCATION

Hunter College High School, NYC — *Class of 2024*

A/A+ Student, FRC Robotics Team Lead Programmer and Data Analyst, Competitive Programming Club

COURSEWORK

Harvard's CS50: Introduction to Computer Science

Well-designed and readable code, C, Python, HTML/CSS/JavaScript

Standford's Machine Learning

Linear Regression, Logistic Regression, Neural Networks, Support Vector Machines, K-Means, PCA Dimensionality Reduction, Anomaly Detector Systems, Recommender Systems

Learning with large datasets, F1 Score diagnosis, learning curves

SKILLS

Python, Java, SQL , C/C++, HTML/CSS/JS, Octave

Machine Learning, Competitive Programming, AutoCAD Inventor

AWARDS

American Computer Science League, Intermediate Division - Individual First Place in New York 2022

American Computer Science League, Intermediate Division - Team First Place in New York 2022

Anselmo Academy International Youth Music Competition, Piano - Finalist 2022

Scholastic Art and Writing Award - Silver Key in Short Story 2020

PROJECTS

HCHS Share — *Notes Sharing Web Application*

Notes sharing website created during the COVID-19 pandemic to help students keep up with school work

Flask Python framework, Google Cloud Platform, SQL, and Google Cloud Storage

Are You Sad?— *Screening for Depression on Twitter Using a Sentiment Analysis Neural Network*

Machine Learning project made to screen for teen mental health issues and depression in teens by analyzing a Twitter user's last couple thousand tweets

Jupyter Notebook, Tensorflow, Tweepy