Zakariyya Scavotto

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https://www.linkedin.com/in/zakariyya-scavotto | https://github.com/ZakariyyaScavotto

Education

Stevens Institute of Technology | Hoboken, NJ

    Bachelor of Science in Computer Science   Expected May 2026

    Honors: Pinnacle Scholar

    Coursework: Seminar on Blockchains: Foundation and Applications, Intro to Computer Science, Seminar on Electrical Engineering, Probability and Stats

Thomas Jefferson High School for Science and Technology (TJHSST) | Alexandria, VA

    4.385 GPA   Graduated June 2022

    Coursework: Artificial Intelligence, Machine Learning, AP CS (5), Multivariable Calculus/Linear Algebra, AP Calculus BC (5)

Work and Research Experience

George Mason University Mentorship   (June 2020-November 2022)

- Conducted a research study on EEG-based emotion recognition in music using machine learning under the guidance of Dr. Nathalia Peixoto.
- Used SVMs with the scikit-learn library to train a model to classify the correct emotional response with 64.6% accuracy.
- Created a demonstration web application with Flask to predict emotional responses based on live EEG data.
- "EEG-based Emotion Recognition with Music: A Model and Application" posted to Mason Archival Repository Service: http://mars.gmu.edu/handle/1920/12993.

Lead Teaching Assistant, TJHSST's Summer Math 5 (Pre-Calc) course (Summer 2021)

Skills

Hardware: Built a gaming PC from scratch, EEGs

Programming Languages: Python (5 years), Javascript (4 years), HTML (4 years), CSS (4 years), Java (3 years), MATLAB (1 year), C++ (1 year)

Software: GitHub, Google Drive, Microsoft Office

Extracurriculars and Leadership

Music: see my music resume, Zakariyya Scavotto Music Resume

    Sample recording of my playing: Scriabin Prelude Op. 11 No. 22 in G Minor

Stevens Institute of Technology:

    Computer Science Club, Stevens Stand-Up Society   (2022-Present)

TJHSST Clubs:

    Dev Club, Machine Learning   (2018-2022)

Leadership:

    Lecturer, Dev Club   (2021-22)