Zakariyya Scavotto

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Education

Stevens Institute of Technology | Hoboken, NJ

    Bachelor of Science in Computer Science   Expected May 2026

    GPA: 4.0 | Honors: Pinnacle Scholar

    Coursework: Data Structures, Discrete Structures, Probability and Stats, Intermediate Stats, Seminar on Blockchain, Seminar on Computer Science

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

    GPA: 4.385   June 2022

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

Work and Research Experience

Quant Intern, Stevens Student Managed Investment Fund   (January 2023 - Present)

- Working as a team on the Factor Model (FM), a machine-learning model to determine how much money should be allocated to each sector the fund invests in.
- Created a guide that walks through the setup of an Ubuntu Desktop Virtual Machine using VirtualBox for Windows to run the FM code.

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

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: Zakariyya Scavotto Music Resume, ZS Scriabin Prelude Op 11 No 22 in G Minor

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

TJHSST: Dev Club (Lecturer, 20221-22), Machine Learning   (2018-2022)