Zakariyya Scavotto

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Education

Stevens Institute of Technology | NJ
Bachelor of Science in Computer Science — Expected May 2026
GPA: 4.0 | Honors: Pinnacle Scholar, Upsilon Pi Epsilon Honor Society
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) | VA — June 2022
Coursework: Artificial Intelligence, Machine Learning, AP CS (5), Multivariable Calculus, Linear Algebra, AP Calculus BC (5)

Work and Research Experience

Student Researcher, Stevens Institute of Technology (May 2023 - Present)

- Working under the guidance of Professor Yue Ning on modeling inflation during COVID using machine learning, with the goal of primarily using COVID data in the model.

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

- Worked on Factor Model (FM) team's machine-learning sector allocation model.
- Made a guide to setup an Ubuntu Desktop Virtual Machine with VirtualBox on Windows.
- Created Python script to generate a weekly report summarizing FM performance.

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 emotional responses with 64.6% accuracy.
- Built a demonstration web application with Flask to predict responses with live EEGs.
- Authored "EEG-based Emotion Recognition with Music: A Model and Application", Mason Archival Repository Service: http://mars.gmu.edu/handle/1920/12993.

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 (Excel, PowerPoint, Word)

Extracurriculars and Leadership

Music: Zakariyya Scavotto Music Resume, ZS Scriabin Prelude Op 11 No 22 in G Minor
Stevens: Computer Science Club, Association of Computing Machinery Chapter (VP, 2023-Present)
TJHSST: Dev Club (Lecturer, 2021-22), Machine Learning (2018-2022)