

# Zakariyya Scavotto

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## Education

**Stevens Institute of Technology** | NJ Expected May 2026

Bachelor of Science in Computer Science

GPA: 4.0 | Honors: Pinnacle Scholar, Upsilon Pi Epsilon Honor Society

Coursework: Algorithms, Computer Architecture and Organization, Database Management Systems, Data Structures, Discrete Structures, Princ. of Programming Languages, Systems Programming, Intermediate Statistics, Probability, Nonlinear Optimization, Macro/Microeconomics

**Thomas Jefferson High School for Science and Technology** | VA Jun. 2022

Coursework: Artificial Intelligence, Machine Learning, Linear Algebra, Multivariable Calculus

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## Work and Research Experience

**Stevens Institute of Technology, Data Structures Course Assistant** (Jan. 2024 - Present)

- Running lab sessions, grading student assignments, and conducting office hours.

**Stevens Institute of Technology, Intermediate Stats Class Assistant** (Sept. 2023 - Dec. 2023)

- Helped students with questions about stats or their R programs during lectures.

**Stevens Student Managed Investment Fund**

*Factor Model (FM) Analyst, FM Team* (Sept. 2023 - Present)

- Researching different methods of portfolio optimization for factor models.
- Coding various implementations of a factor model to determine sector allocations for the fund.

*Quant Intern, FM Team* (Jan. 2023 - May 2023)

- Made a guide to set up an Ubuntu Desktop Virtual Machine with VirtualBox on Windows.
- Created a Python script to generate a weekly report summarizing FM performance.

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

- Modeling inflation during COVID using machine learning with the goal of incorporating COVID data in the model, under the guidance of Professor Yue Ning.

**George Mason University, Student Researcher** (Jun. 2020 - Nov. 2022)

- Conducted a study on EEG-based emotion recognition in music under Dr. Nathalia Peixoto where we used SVMs to classify emotional responses with 64.6% accuracy.
  - Authored “EEG-based Emotion Recognition with Music: A Model and Application”, Mason Archival Repository Service: [mars.gmu.edu/handle/1920/12993](https://mars.gmu.edu/handle/1920/12993).
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## Skills

*Programming Languages:* Python (6 years), Javascript (4 years), HTML (4 years), CSS (4 years), Java (3 years), R (1 year), MATLAB (1 year), C++ (1 year)

*Software:* GitHub, Google Drive, Microsoft Office (Excel, PowerPoint, Word)

*Certificates:* [Bloomberg Market Concepts \(Dec. 2023\)](#)

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## Extracurriculars

Music: [Zakariyya Scavotto Music Resume](#), [ZS Scriabin Prelude Op 11 No 22 in G Minor](#)

Stevens: Computer Science Club, Association of Computing Machinery (2022 - Present)