# Adam Gamba

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## Education

**Princeton University – Princeton, NJ**                                                    June 2023
BSE Candidate, Intended Concentration: Computer Science, GPA: 3.938
Relevant Coursework: Introduction to Programming Systems in C (A), Reasoning about Computation (A), Algorithms & Data Structures (A), Probability & Stochastic Systems (A), Statistics (A), Linear Algebra (A), Multivariable Calculus (A), Introduction to Java (A)

**Marine Academy of Technology and Environmental Science – Stafford Township, NJ**          June 2019
Salutatorian, GPA: 98.140, SAT: 1540, ACT: 34, SAT Chemistry: 800, SAT Math II: 800
Math League: President, highest county scorer

## Quantitative Research

An Analysis of the Dynamicity of Music Lyrics                                    Nov. 2019 - Dec. 2019
and Their Effects on Social Trends
- Analyzed 55 years of top 100 Billboard lyrics utilizing Python
- Related lyrical trends to real-world economic, criminal, and sentimental shifts
- Elected to present research at Mary W. George Research Conference

Determination of Hill Curvature Through Accelerometer Data Collection           July 2019 - Aug. 2019
- Constructed physical curvature diagrams in MATLAB by utilizing time-series acceleration measurements obtained from bicycle accelerometer data
- Assembled and soldered accelerometer, given electrical components

The Prediction of Imminent Meteorological Conditions Through Extensive Analysis    Sep. 2018 - Jan. 2019
of *Drosophila melanogaster* Locomotion and Behavioral Patterns
- Designed and executed laboratory experiments to analyze common fruit fly agitation as a result of low-pressure systems and atmospheric disturbances
- Founded on previous research on *Drosophila* Prenatal Alcohol Exposure

Statistical Analysis of Professional Chess Games                                Sep. 2018 - Jan. 2019
- Surveyed over 2 million professional chess matches using Python to generate activity heat maps of most relevant squares and an improved piece rating system

## Skills

**Programming**: Advanced proficiency in Java/Python/C, working knowledge in R/JavaScript/MATLAB, deep knowledge of algorithms and object-oriented programming, intermediate HTML/CSS/JavaScript/Bootstrap
**Technologies**: Mastery of Microsoft Office Suite (Excel, Word, PPT), LaTeX, Adobe Photoshop, git, Linux bash, willingness to learn and study others

## Work Experience

Computer Science Grader – Remote                                              Sep. 2020 - Present
- Collaborate with others to analyze and provide feedback on student Java projects

SAT Tutor, SAT Smart – Princeton, NJ                                          Sep. 2019 - Present
- Compile weekly, individually-tailored lesson plans for several students
- Tutor SAT Math and English exams resulting in considerable score increases

Intern, Epic Systems Corporation – Verona, Wisconsin                                    Jan. 2020
- Collaborated with employees and participated in SWE and management workshops

## Activities and Interests

- Improv piano, drums, live performance, rock climbing, chess, powerlifting, low-income organizations
- Communication skills in Italian and Spanish, Rubik's cube sub-30 second solving, blindfolded solving