

Adam Gamba

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Education

Princeton University – Princeton, NJ

June 2023

BSE Candidate, Intended Concentration: Computer Science, GPA: 3.918

Relevant Coursework: Introduction to Programming Systems in C (Spring 2021), Reasoning about Computation (Spring 2021), 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
and Their Effects on Social Trends

Nov. 2019 - Dec. 2019

- 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
of *Drosophila melanogaster* Locomotion and Behavioral Patterns

Sep. 2018 - Jan. 2019

- 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, working knowledge in R/JavaScript/MATLAB, deep knowledge of algorithms and object-oriented programming, intermediate HTML/CSS/JavaScript/Bootstrap

Software: Mastery of Microsoft Office Suite (Excel, Word, PPT), LaTeX, Adobe Photoshop, 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