

Jacob Stavrianos

Stanford University, Freshman

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Education

- 2019–2023 **Stanford University**, Palo Alto, CA, Class of 2023.
GPA 3.876, Intended Math and Computer Science double major
- 2015–2019 **Montgomery Blair High School**, Silver Spring, MD, Class of 2019.
Mathematics, Science, and Computer Science magnet program

Work Experience

- 2020 Summer **Openproof Foundation**.
Developed web applications for Openproof software packages, worked with Javascript and HTML+CSS frontend, collaborated with a team of undergraduate students
- 2019 Summer **ASR Analytics**.
Developed a graph-based recommender engine to inform IRS tax compliance interventions; gained practical experience with a modern software development toolchain
- 2018 Summer **University of Maryland REU (Research Experiences for Undergraduates) program**.
Collaborated with undergraduate students from across the country to research the Hadwiger-Nelson problem under Dr. Clyde Kruskal; co-authored a journal article detailing our results

Extracurricular Activities

- 2017–2019 **Blair Math Team Captain**.
Chosen by previous captains; responsible for organizing events and competitions among large groups and teaching students complex math in an approachable and engaging way
- 2017–2019 **MBHS Systems**.
Collaborated with a team of students to develop an accurate and computationally tractable model of particle dispersion over time

Achievements/Awards

- 2019 **USAMO (USA Math Olympiad) Top 50 Nationwide**.
◦ Two-time qualifier for USAJMO (USA Junior Math Olympiad)
◦ 5-time AIME qualifier
- 2016–2018 **Princeton University Mathematics Competition: 1st place overall team**.
◦ Individual finalist - Algebra (2017)
- 2016 **University of Maryland Mathematics Competition: 2nd place overall individual**.
◦ Won a 4-year scholarship to UMD and a cash award
- 2017 **Philadelphia Classic Programming Competition: 2nd place overall team**.

Relevant Coursework

- Mathematics (single+multivariable calculus, linear algebra, statistics, discrete math, logic, etc)
- Physics (mechanics, electricity and magnetism, basic thermodynamics, quantum)
- Computer Science (analysis of algorithms with APCS exam, intro to AI)

Computer Skills

- Programming Python, Java, Javascript/HTML, C++, R, MATLAB, Lisp
- Software Unix/Linux shell, Git, Ajax/JQuery, \LaTeX , Office Suite (Word, Excel)