Jacob Stavrianos

Stanford University, Senior

+1 (301) 655 4765
jstav@stanford.edu
vatsj.github.io
bit.ly/vatsj-linkedin
vatsj

Education

2019 - 2024 **Stanford University**, Palo Alto, CA, Class of 2023.
GPA 3.700, Intended Math major + CS coterm

2015 - 2019 **Montgomery Blair High School**, Silver Spring, MD, Class of 2019.
Mathematics, Science, and Computer Science magnet program

Work Experience

2022 Summer **Jane Street Capital**.
Used Python and Excel to measure betas between financial products; used Bloomberg and SQL to analyze participation in ECM events

2021 Summer **Five Rings Capital**.
Completed a research project under the mentorship of a full-time Quantitative Researcher; competed against other interns in training games

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

Research/Extracurriculars

2021 Winter - Spring **Stanford Existential Risks Initiative**.
Researched the Outer Alignment problem under the mentorship of Alex Turner, extended Turner's definition of POWER to multi-agent games

2020 Winter **Math Directed Reading Program**.
Studied *Algebraic Topology* by Hatcher under the mentorship of Joseph Helfer, gave a talk presenting my research to the program participants

2018 Summer **University of Maryland REU (Research Experiences for Undergraduates) program**.
Collaborated with undergraduate students to research the Hadwiger-Nelson problem under Dr. Clyde Kruskal; co-authored an article in *Geombinatorics* detailing our results

Achievements/Awards

2019 **USAMO (USA Math Olympiad) Top 50 Nationwide**.
- Two-time qualifier for USAJMO (USA Junior Math Olympiad)

2016 **University of Maryland Mathematics Competition: 2nd place overall individual**.
- Won a 4-year scholarship to UMD and a cash award

Relevant Coursework

- Mathematics (multivariable calculus, linear algebra, game theory, familiar with many fields)
- Computer Science (core classes, artificial intelligence + machine learning)

Computer Skills

Programming Python (and data science applications), Java, Javascript/CSS, C++, R, MATLAB, Lisp
Software Unix + Shellscript, Git, Conda, LaTeX, Vim