Isaac Wachsman

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Education

University of Florida — Gainesville, FL

Bachelor of Science in Computer Science, Mathematics, Honors Program, Benaquisto Scholar — 2027

GPA: **4.0**

Relevant coursework: Linear Algebra, Abstract Algebra, Graph Theory, Data Structures and Algorithms

American Heritage Schools, Palm Beach Campus — Delray Beach, FL

SAT: **1570** — 2023

GPA: **5.77**

National Merit Finalist, Top 3% of Class, AIME Qualifier, Mathematics Passion Award,
AP Scholar w/ Distinction, Pre-Engineering Program

Experience

Mathematics Tutor — Gainesville, FL

Private — Aug 2023 -

- Providing personalized instruction in mathematics via Zoom and in-person.
- Teaching a wide range of classes spanning from Algebra I to Differential Equations.
- Managing schedule to provide an ample number of time slots during exam weeks.

Data Solutions Intern — Deerfield Beach , FL

JM Family Enterprises — June - Dec 2024

- Designed time trials application, allowing for efficient tracking of associate productivity.
- Collaborated with pricing team to automate dealer price chart generation.
- Implemented associate calendar program, letting managers view associate attendance.

Engineering Intern — West Palm Beach, FL

SV Microwave — June - Aug 2022

- Wrote VBA Macros, allowing teams to automate the generation of reports.
- Designed and fabricated a machine used to test cable connectors.
- Programmed movements for a robotic arm with a programmable logic controller.

University Projects

Maze Traversal - DSA Final Project — Oct - Dec 2024

- Created a program which allows users to visually see differences between BFS and DFS algorithms on mazes.
- Implemented maze traversal and generation algorithms.
- Designed a interface which allows users to step through DFS and BFS algorithms at custom pace.
- Technologies Used: Python, PyGame

Activities

- University Math Society Integration Bee (Quarterfinalist) — March 2024
- William Lowell Putnam Mathematical Competition (**Score: 18**) — Dec 2024

Additional

Languages: Python, C++, Java, NumPy, HTML/CSS, Visual Basic for Applications
Developer Tools: Visual Studio Code, PyCharm, GitHub, Git Bash, Git
Libraries: PyGame, OpenCV, SFML
Interests: Discrete Mathematics, Abstract Algebra, Graph Theory, Algorithms