MANAV MALIK

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EDUCATION

Mentor High School   Aug. 2019 - Jun. 2023
GPA: 4.377 weighted, 4.0 unweighted

· Concertmaster, Mannheim Chamber Orchestra; President/Founder, Computer Science Club; Senior Member, Science Olympiad; High-Scoring Member, Math League; Member, National Honors Society

SKILLS

Languages	Python, Java, C, LaTeX, HTML, CSS, Javascript, PHP, ASP/.NET
Tools	PyGame, OpenCV, Java Swing, Z3, JQuery, Ajax
Interests	Cryptography, Software Development, Cybersecurity, CTFs

COMMUNITY PARTICIPATION (COMPETITIONS/SERVICE)

Hack OSU HSI/O Hackathon   Mar. 2021
1st place

Hathway Brown BYTE Competition (Competitive Programming)   Feb. 2021, Feb. 2022, Mar. 2023
1st place

CTF Competitions

MHSCTF 2022 MHSCTF 2023 (sole event organizer, 2300+ global participants), SFISSA HTF 2021 (1st place), picoCTF 2021 (94th percentile), HSCTF 2020 (94th percentile), picoCTF 2019 (95th percentile)

Fairport Harbor Senior Center Volunteering   2017-Present
Started a program to help seniors meet the latest demands of modern technology. I provide one-on-one assistance for them.

Mentor Science Olympiad Event Coach   2019-Present
I have been an event coach since 9th grade. This entails planning and teaching lessons and writing/grading/proctoring exams at major weekend competitions.

Cleveland Clinic, BioRobotics Core (Project Intern)   Summer 2022, Summer 2023
The BioRobotics Mechanical Testing Core (BRMTC) provides biomechanical testing of biological structures and biomaterials. I was a project intern over the summer and worked with other interns and leadership in the core to help with and independently complete multiple global projects.

PROJECTS

ShikshaDaan Website
Volunteered to create a website for a local nonprofit to help their transition to a virtual platform after the COVID pandemic.

Corrupt File Handler
Created a task on Windows Scheduler that uses Python to compare file hashes, detect corrupt files, and repair them from backups. Used by General Electric (GE).

MHSCS Website
A website I created for the computer science department at my school. Built using ASP.NET and the MVC web design paradigm.

CTF Suite
A suite of tools useful for capture-the-flag cybersecurity challenges. Includes tools for cryptanalysis, brute-forcing ciphers, and basic data forensics tasks.

StudentGrouper
A classroom tool for randomizing and grouping students used frequently by teachers in my school. Created with Java Swing.