MANAV MALIK

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SUMMARY

Dedicated and highly motivated computer science student with a strong foundation in cybersecurity, reverse engineering, and vulnerability analysis. Proficient in programming languages such as Python, Java, and C, with a keen interest in exploring cutting-edge security technologies. Known for problem-solving skills honed through participation in cybersecurity competitions and real-world projects. Seeking a dynamic internship opportunity to apply my technical expertise, drive for innovation, and passion for enhancing digital security.

EDUCATION

Mentor High School   Aug. 2019 - Jun. 2023
Summa Cum Laude

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

Rochester Institute of Technology   Aug. 2023 - Jun. 2027 (exp.)
B.S./M.S. Computer Science

· Member, Computer Science House; Member, RITSEC Team; Member, Computing Organization for Multicultural Students; Member, Wadaiko (Japanese Taiko Club); First Violinist, RIT Philharmonic Orchestra

TECHNICAL 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)

Competitive Programming Competitions

Hathaway Brown BYTE Competition 2021, 2022, 2023 (1st place); Baldwin Wallace Competition 2023 (2nd 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   2019-2023
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).

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