MANAV MALIK

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WHO AM I?

Motivated computer science student specializing in cybersecurity, reverse engineering, and vulnerability analysis. Proficient in Python, Java, and C, with a track record of solving complex security challenges through competition and hands-on projects. Eager to contribute technical skills, innovative thinking, and a strong cybersecurity focus to an internship role.

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 & Tools	Python, Java, C, LaTeX, HTML/CSS/JS, PHP, ASP/.NET, OpenCV, Z3, JQuery
Interests	Cryptography, Software Development, Cybersecurity, CTFs
Other	Communication & Teamwork, Creative Problem-Solving

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
Initiated a comprehensive program aimed at empowering senior citizens to navigate and adapt to the rapidly evolving landscape of modern technology. I deliver personalized one-on-one guidance and support to enhance their digital literacy and technology proficiency.

Mentor Science Olympiad Event Coach 2019-2023
Since 9th grade, I've served as an event coach, responsible for curriculum planning, instruction, and exam writing/administration at weekend competitions.

Cleveland Clinic, BioRobotics Core (Project Intern) Summer 2022, Summer 2023
As a summer project intern with the BioRobotics & Mechanical Testing Core (BRMTC), I collaborated with fellow interns and core leadership to actively contribute to diverse global projects in biomechanical testing of biological structures and biomaterials.

PROJECTS

ShikshaDaan Website
Volunteered to design and develop a website for a local nonprofit, facilitating their successful transition to a virtual platform in response to the COVID-19 pandemic.

Cornucopia
Created, researched, and authored a paper on Cornucopia, an automated Python source code reverse engineering tool, showcasing its role in streamlining capture-the-flag challenges.

CTF Suite
Designed and engineered a Python-based suite of tools for capture-the-flag cybersecurity challenges, including tools for cryptanalysis, cipher brute-forcing, and data forensics.