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 or co-op role.

EDUCATION

Rochester Institute of Technology   Aug. 2023 - Jun. 2027 (exp.)
B.S./M.S. Computer Science & Computational Mathematics, 3rd year by credit

- Member, Computer Science House; Member, RITSEC Team; Member, Computing Organization for Multicultural Students; Member, Wadaiko (Japanese Taiko Club); First Violinist, RIT Philharmonic Orchestra
- GPA: 4.0; Awards: Dean's List (Fall 2023), Performing Arts Scholar

TECHNICAL SKILLS

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

EXPERIENCE

Cleveland Clinic, BioRobotics Core (Project Intern)   Summer 2022, Summer 2023
Collaborated with fellow interns and core leadership to actively contribute to diverse global projects in biomechanical testing of biological structures and biomaterials.

COMMUNITY PARTICIPATION (COMPETITIONS/SERVICE)

Competitive Programming Competitions

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

Cybersecurity Competitions

RITSEC CTF 2024 (author); RIT ISTS Competition 2024 (Black Team, CTF organizer); RIT IRSeC 2023 (4th place); RIT WiCyS CTF 2023 (author); MHSCTF 2022, 2023 (sole event organizer, 2300+ global participants); SFISSA HTF 2021 (1st place); picoCTF 2021 (94th percentile); HSCTF 2020 (94th percentile)

Fairport Harbor Senior Center Volunteering   2017-Present
Initiated a program to empower senior citizens to navigate and adapt to the rapidly evolving landscape of modern technology. Deliver one-on-one guidance and support to enhance digital literacy and technology proficiency.

Mentor Science Olympiad Event Coach   2019-Present
Responsible for curriculum planning, instruction, and exam writing/administration at weekend competitions.

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.