

# MANAV MALIK

(440) 382 - 7353 ◊ manavmalik36@gmail.com ◊ github.com/0xmmalik ◊ 0xmmalik.github.io

## 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 & 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

## 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)

### Cyberdefense Competitions

RIT IRSeC 2023 (4th place), RIT ISTS Competition 2024 (Black Team, CTF organizer)

### 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 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

2019-2023

*Responsible for curriculum planning, instruction, and exam writing/administration at weekend competitions.*

### 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.*

## 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.*