

Mary Cotrupi

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EDUCATION

Rensselaer Polytechnic Institute (RPI) | Troy, NY

May 2027

B.S. in Computer Science and Information Technology & Web Science | GPA: 3.8/4.0

Focus Tracks: Artificial Intelligence (AI), Machine Learning (ML), & Data Science and Information Security

Relevant Courses: Data Structures, Computer Organization, Foundations of Computer Science (Discrete Math), Web Systems Development, Introduction to Algorithms, Web Science Systems Development, Principles of Software

Dean's Honor List: Fall 2023, Spring 2024

TECHNICAL SKILLS

Certifications: ISC2 Certified in Cybersecurity (CC), CompTIA IT Fundamentals+ (ITF+)

Languages & Tools: Python, C++, C, HTML/CSS/JavaScript, PHP, MySQL, Kali Linux, Git

RELEVANT EXPERIENCE

Rensselaer Cybersecurity Collaboratory | Research Assistant | Troy, NY

Aug 2024 - Present

Ethics of Generative AI through Cybersecurity Training

- Presented “Generative AI for Cybersecurity Awareness Training: Skills, Strategies, and Accountabilities” at BSides St. Pete 2024, a leading national cybersecurity conference | *St. Petersburg, FL – Sep. 2024.*
- Analyzed risks and rewards for allowing Generative AI to create and administer security awareness training while studying the ethics, usefulness, and biases of the AI for security professionals.
- Performed data collection, data analysis, and dissemination under Dr. Brian Callahan.

Augmented Reality Cyber Security CTF pedagogy

- Developing a new cybersecurity educational curriculum, a CTF event using Augmented Reality technologies.

National Cyber League (NCL) Competition

Aug 2023 - Present

- Member of the #1 collegiate CTF school in the country (RPI) in the Cyber Skyline National Cyber League Competition for the Fall 2023 season, specializing in Enumeration & Exploitation, Password Cracking, and OSINT categories.
- Placed top 10% out of 4199 teams as a single-person team in the NCL Spring 2024 season.

The Porch LLC | Web Designer and Media Manager | Sandwich, NH

July 2021 - Present

- Built <https://theporchnh.com> with HTML/CSS/JS, WordPress, and implemented SEO best practices to reach 4000+ users.
- Managed digital presence across Google Business, Bing Places for Business, Instagram, Facebook, and Yelp.

LEADERSHIP EXPERIENCE

Student Leadership | ISC2 Capital District NY Chapter

Fall 2024 - Present

- Organized monthly chapter meetings, bringing together students and cybersecurity professionals.
- Worked with ISC2 leadership to create a cybersecurity academic conference and career fair at RPI.

Student Leadership | Rensselaer Cybersecurity Collaboratory | RPI

Fall 2024 - Present

- Organized weekly CTF team meetings, increasing participation from all majors at RPI.
- Taught weekly meetings on CTF topics such as Open-Source Intelligence and Forensics.

Principal Second Violin | Rensselaer Orchestra | RPI

Spring 2024 - Present

- Led the second violin section in full rehearsal and sectionals. 9+ years experience in fiddle and classical violin repertoire.

Association for Computing Machinery – Women (ACM-W) | Fundraising Chair | RPI

Spring 2024

- Proposed and implemented fundraising initiatives to encourage the involvement of women in computer science.

PROJECTS

Moultonborough Academy Computational Design | Team member

Fall 2022

- Mapped 500 LEDs on a Christmas tree and developed 15+ animations in Python and C++ for Arduino UNO to display festive 3D light animations for local community members. Gave culminating educational presentation to technical department.

PROFESSIONAL MEMBERSHIP

International Information System Security Certification Consortium (ISC2) | Member

Aug 2024 - Present