

Emir Yilmaz

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Education

Rochester Institute of Technology

Expected May 2028

Bachelor of Science **Cybersecurity & Political Science** | GPA: 3.45 | Coursework: Cryptography, Risk Management, Cybersecurity Policy & Law

Skills

Languages: Python, C, C#, Java, Assembly, JavaScript, HTML/CSS, Bash, SQL

Security: Malware Analysis, Reverse Engineering, Digital Forensics, Network Analysis, Risk Management, NIST, SOC 2

Tools: Wireshark, IDA Pro, x64dbg/x32dbg, Process Monitor, VMware, pfSense, Git, Firebase, Cisco CME, Windows Server

Networking: TCP/IP, UDP, DHCP, VLANs, RTP, SCCP, TFTP, VoIP

Research: Human-Subjects Research, Usability Testing, Qualitative/Quantitative Analysis, LLM Evaluation

Professional Experience

Undergraduate Research Assistant, RIT ESL Global Cybersecurity Institute

May 2026 – Aug 2026

- Designed and conducted an **IRB/HSRO-approved 20-participant usability study** comparing emoji- and number-based security verification for **ShoutSMS**.
- Recruited participants, conducted interviews, and analyzed quantitative/qualitative data to evaluate security verification usability and user experience.
- Collaborated with the **RIT DeFake Project** to evaluate how effectively leading **LLMs** distinguish real, AI-generated, and manipulated video content.
- Built and evaluated video datasets across multiple LLMs, analyzing **model accuracy, visual artifacts, metadata, and misinformation risks**.

Course Assistant CSEC-202, RIT Golisano College of Computing and Information Sciences

Aug 2026 – Current

- Grade **Reverse Engineering Fundamentals** coursework covering **assembly, debugging, low-level programming, and reverse engineering**.
- Evaluate technical assignments and provide feedback on reverse engineering methodology and program analysis.

Teaching Assistant MATH-173, RIT College Of Science

Aug 2026 – Current

- Support Calculus C lectures by assisting students with coursework and problem-solving.
- Lead weekly recitations focused on practice problems, concept review, and exam preparation.

Projects

WannaCry Malware Analysis

May 2026

- Performed static and dynamic **WannaCry ransomware analysis** in an isolated Windows VM using **IDA Pro, x32dbg, Process Monitor, PEview, PEiD, VirusTotal, UPX**, and Sysinternals Strings.
- Reverse engineered PE structure, DLL/API calls, filesystem, process, registry, and memory behavior involving **kernel32.dll** and **ntdll.dll**.
- Traced Windows API calls and runtime behavior to document ransomware execution and system-level activity.

VoIP Security & Network Lab

May 2026

- Configured and analyzed a Cisco VoIP environment using **CME, SCCP, DHCP, TFTP, RTP, VLANs, QoS/DSCP, and Wireshark**.
- Analyzed **SCCP/RTP, TCP/UDP, and G.711** traffic and reconstructed RTP audio in Wireshark for network forensic analysis.
- Documented VoIP call flows, signaling/media traffic, packet analysis, and findings in a **SOC-style incident report**.

Painappuru Magazine - Full-Stack Developer

Sep 2024 - Current

- Built and deployed a full-stack web platform using **HTML, CSS, JavaScript, and Firebase**, serving **500+ users**.
- Developed responsive frontend components and integrated Firebase backend services for application data and content.

Leadership & Activities

Turkish Student Association - President

Feb 2025 – Current

- Lead organizational operations, events, outreach, and recruitment; added **20+ members** and raised **\$450+**.

EYZ Cameras - Founder

May 2026 – Current

- Built a camera resale business serving **50+ customers** and generating **\$4,000+ revenue**; donate **1% of profits** to charity.

Men Of Character, Honor, Ambition (MOCHA) - Member

Aug 2025 – May 2026

- Selected for RIT leadership program focused on professional development, academic success, and community engagement.