

DOMINICK IADEVAIA

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Education

Rensselaer Polytechnic Institute (RPI)

Expected May 2026

Bachelor of Science in Computer Science, Minor in Cognitive Science, GPA: 4.0

Troy, NY

Relevant Coursework

- Binary Exploitation
- Cryptography
- Information Security
- Machine Learning
- Algorithms
- Network Security
- Operating Systems
- Computer Architecture

Technical Skills

Languages: Python, C, C++, Assembly, Bash, Java, JavaScript, HTML/CSS, R

Tools/Technologies: Git/GitHub, Ghidra, Wireshark, Metasploit, Burp Suite, Nmap, ffuf, Netcat, Docker

Operating Systems: Linux (Debian, Kali, Fedora), Windows

Web/Cloud: AWS, Nginx, Cloudflare, Let's Encrypt

Experience

RPI Computer Science Department

Sept 2025 – Present

Undergraduate Mentor - Modern Binary Exploitation

Troy, NY

- Collaborated with course professor, hosted office hours to support instruction, and guided students in binary exploitation (buffer overflows, format strings, ROP) and protections (stack cookies, ASLR, DEP/NX, PIE).

Nassau County IT Department

Jun 2025 – Aug 2025

Web Intern

Mineola, NY

- Maintained and updated Nassau County's government website, fulfilling content change requests across departments.

RPI Security Club (RPISEC)

Jan 2024 - Present

Club Member — Security Trainings

Troy, NY

- Attended Advanced IDA Workshop focused on debugging, tracing, and profiling using VS Code, Ghidra, IDA Free, ltrace, strace, latrace, and gprof.

RPI Advising Learning Assistance Center

Feb 2024 – Dec 2024

CS Tutor (Private + Group)

Troy, NY

- Tutored Intro to CS, Data Structures (Python/C++), and Intro to Algorithms; guided students with debugging and problem-solving.

First National Bank of Long Island

May 2023 – Aug 2024

Summer IT Intern

Melville, NY

- Supported help desk operations and developed automation tools using PowerShell and RPA, improving efficiency.
- Assisted with the rollout of a company-wide core banking platform.
- Configured and managed machines in Active Directory using ManageEngine ADManager Plus.

Projects

Secure ATM & Bank System | Cryptographic Systems, Penetration Testing

Mar 2025 – May 2025

- Implemented a secure ATM-bank communication protocol using custom cryptographic primitives (RSA, AES, HMAC).
- Successfully exploited cryptographic and protocol flaws in a peer system, allowing access to sensitive data.

TinyCC Backdoored Compiler Quine | Systems Security, C

Sept 2024 – Dec 2024

- Backdoored TinyCC with a quine-based injection, inspired by Thompson's "Trusting Trust" attack.
- Showed self-propagating behavior where infected compilers re-infect clean builds.

VZCode | React.js, Node.js

Sept 2023 - Dec 2023

- Contributed to the development of VZCode, an open-source, cloud-based multiplayer code editing environment.
- Responsible for the development of software components using React.js and Node.js languages.

Extracurriculars

RPI Security Club (RPISEC)

Fall 2024 – Present

Upsilon Pi Epsilon (UPE)

Spring 2020 – Present

Hack The Box Player

Ongoing

Honors / Certifications

(In Progress) CompTIA Security+

2025

ISC2 Certified in Cybersecurity (CC)

Mar 2025

Eagle Scout, Troop 362, East Meadow

Feb 2022

Dean's Honor List, RPI, Troy, NY

Fall 2022 – Present