

# EVAN DEFLOOR

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## Education

### NORTHEASTERN UNIVERSITY KHOURY COLLEGE OF COMPUTER SCIENCES

Candidate for B.S. Cybersecurity. **GPA 3.96/4.0**. Dean's list | Honors College

**Related coursework:** Object Oriented Design, Systems Security, Networks & Distributed Systems, Algorithms, Computer Systems, Windows Malware, Network Security, Forensics

**Clubs:** President of CTF Club, member of Cyber Defense Team, Penetration Testing Team

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Sept 2021 - Present

Expected: May 2025

Boston, MA

## Technical Skills

**Certifications:** ISC2 CC, CompTIA Security+ | **Languages:** Java, JavaScript, C#, Python, HTML, CSS, SQL, Go, Rust, C, Visual C | **Frameworks:** AngularJS, Flask | **OS:** Windows 7/10/11, Linux (Debian-based, RPM-based, Arch, NixOS) |

**Technologies:** AWS EC2, Kubernetes, Docker, Burp Suite, nmap, Wireshark, VMWare, VirtualBox, Ghidra, Git, nginx, Active Directory, Tailscale, x64dbg, Sysinternals, Win32 API, NodeJS, ScyllaDB, NoSQL, GPO,

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## Projects

### Full-featured Windows Malware

Spring 2024

- Designed and created a C2 framework, client, and modular implant for Windows machines in Windows Visual C
- Participated in team, creating thread hijacking process injection, in-memory DLL loading, client frontend, chrome password stealer, hotkey persistence, TLS encrypted channels, string obfuscation, and more capabilities

### Lisp language created in C

Summer 2023

- Followed online blog to create a fully functional Lisp written in C on Neovim
- Learned about PL concepts needed to make a Lisp language such as S-expressions

### RAFT Key-Value Database in Go

Spring 2023

- Implemented a concurrent, distributed, replicated key-value database based on the RAFT protocol using Go
- Keep high availability and correct data even through server outages and unreliable connections

### TCP Lite Implementation in Python

Spring 2023

- Created program in Neovim to emulate a reliable transport protocol built on top of UDP
  - Simulated through clients with varying reliability, such as dropped, corrupted, & duplicated packets
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## Experience

### Cyber Systems Exploitation Co-op MIT LINCOLN LABORATORY

Aug. 2024 – Dec. 2024

Lexington, MA

- Created performant database solution using ScyllaDB, optimizing read operations to beat naive implementation by a factor of 40 to serve malware analysis platform

### Cyber Security Trust & Assurance Intern MITRE

May 2024 – Jul. 2024

Bedford, MA

- Designed VisJS graph to visualize reinforcement learning based network defense project, compiled PostgreSQL database of ATT&CK to CLI command mappings

### CTF Club Co-Founder & President NORTHEASTERN UNIVERSITY

Jul 2023 – Present

Boston, MA

- Hands-on workshops & competitions of 60+ students to teach offensive cybersecurity

### Cyber Security Engineer HOLOGIC, INC.

July 2023 – Dec. 2023

Marlborough, MA

- Created Python scripts to interact with Tenable API to automatically tag assets
- Implemented VECTR Purple Teaming software to manage red/blue team activities

### Team Member NORTHEASTERN UNIVERSITY COLLEGIATE CYBER DEFENSE TEAM

Dec. 2022 - Present

Boston, MA

- Defend against cyber attacks on a network while maintaining critical services
- Placed 1<sup>st</sup> in Northeastern CCDC regionals in 2024, 7<sup>th</sup> Nationals, 9<sup>th</sup> in Cyberforce

### Undergraduate Research Assistant NORTHEASTERN UNIVERSITY

Sept. 2022 – Aug. 2023

Boston, MA

- Extract finite state machine from network protocol RFCs w/ Dr. Cristina Nita-Rotaru
- Improve upon past work, analyze current work to adapt to additional RFC's

### Full Stack Web Developer THE DIGITAL ACADEMY ENTERPRISE DATA SOLUTIONS, INC.

June 2020 - Aug. 2022

Cleveland, OH

- Built and composed a support ticket system, created/modified major sections of the site ex. user manager administration, home page, site navigation, school management
- Programmed effectively in C#/EF6/SQL, JavaScript/AngularJS/HTML/CSS
- Lead front-end rework of site, including school announcement GUI & presentation