

Avery Rose Darlington

Boston, MA | (610) 574-3510 | darlington.a@northeastern.edu | <https://avveris.net/>

Education

Northeastern University

Boston, MA

Candidate for Bachelor of Science in Cybersecurity

Sept 2023 - Apr 2027

Relevant Coursework: System Security, Object-Oriented Programming, Computer System Programming, Algorithms and Data Structures, Foundations of Data Science

Campus Involvement: A-Board for Artificial Intelligence at Northeastern, Accenture Disability Leadership Cohort, Capture the Flag, Disrupt FinTech Hackathon Participant

Technical Skills

Java, Python, C, SQL, Shell, Git, Excel, Linux, Windows, Mac OS, Hardware Diagnostics, Network Troubleshooting, Technical Documentation, STRIDE Model, Cybersecurity Policy, HIPAA Compliance, Data Modeling, Data Analysis, SQL Query Optimization. Ghidra, JtR, Hashcat

Projects

Cyber From Scratch – C, Python, Bash

Sept 2025 - Dec 2025

- Built a secure TCP client implementing custom authentication protocol with libsodium cryptography library, featuring authenticated encryption and integrity checking
- Analyzed and exploited Linux binaries using gdb, ltrace, and strace for dynamic reverse engineering and vulnerability discovery
- Penetration tested web applications to identify SQL injection, XSS, and CSRF vulnerabilities, successfully bypassing authentication mechanisms
- Developed buffer overflow exploits with shellcode injection, working around modern defenses including stack canaries, ASLR, and non-executable stack protection

Three Trios Game – Java

Oct 2024 - Dec 2024

- Utilized Model-View-Controller architecture to create a fully functional GUI card game.
 - Full Testing Suite for all edge cases, with mocks for isolation.
 - Implemented strategy-powered computer players, observers, and adapters.
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Professional Experience

Technical Support Engineer

Boston, MA

Mobile Aspects

Jun 2025 - Dec 2025

- Deliver on-site technical support for the Mass General Brigham hospital system, troubleshooting hardware/software issues in mission-critical healthcare environments while maintaining strict deadlines
- Led cross-departmental inventory reconciliation project using SQL and Excel analysis, revealing \$800,000 in unaccounted medical devices
- Design and implement an AI-powered chatbot using company data to streamline internal technical support workflows

AI Content Developer

Boston, MA

Artificial Intelligence @ Northeastern

Jan 2024 - Present

- Developed and distributed weekly newsletters to the Northeastern community on AI advancements, LLM comparisons, and policy regulations.
- Managed communication database of 600+ members using Excel, implementing pivot tables and conditional formatting to track and analyze campaign effectiveness.
- Collaborated with industry professionals and faculty to organize and facilitate an AI-focused hackathon.