Jayden Ferrara

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Education

New York Institute of Technology Old Westbury, New York

M.S. in Cybersecurity - Expected May 2027
B.S. in Computer Science, Network Security Concentration - GPA: 3.9 - Summa Cum Laude

Work Experience

ZeroPath Online
Security Research Intern November 2025 - February 2026

- Conducted deep static code analysis on production-grade distributed systems (Go, Rust, C/C++, TypeScript), uncovering high-impact SSRF, DoS, and memory safety vulnerabilities.
- Developed end-to-end remote PoCs in Linux environments using Docker and Kubernetes to demonstrate real-world exploitability.
- Authored detailed vulnerability writeups for engineering and security stakeholders, translating technical findings into actionable remediation guidance.

Hackerone Online
Independent Security Researcher July 2021 - Current

- Submitted 11 valid vulnerability reports across 5 programs, with confirmed triage and bounty compensation.
- Active bug bounty researcher on HackerOne (xfunnieuss): https://hackerone.com/xfunnieuss

TheCoderSchool Syosset, New York
Code Coach September 2024 - Current

- Taught children (ages 6-17) programming fundamentals across various programming languages, adapting lessons to individual skill levels.

Projects

Dynamic Memory Layout Reconstruction Engine | C

- Designed and implemented a high-performance memory scanning engine in C using Windows API to analyze live process memory regions.
- Reconstructed in-memory object layouts using pointer arithmetic and manual struct modeling to validate data offsets and virtual table alignment.
- Optimized pattern-matching logic to reduce scan time across large memory spaces.

Minecraft Packet Multitool | Java, Gradle

- Developed a packet interception and modification framework to log, analyze, and manipulate Minecraft's binary network protocol in real time.
- Implemented structured packet parsing and reconstruction to enable controlled modification of protocol fields and payload data.
- Built a modular logging system to inspect client-server communication and analyze protocol behavior under custom parameter injection.

YOOBI Productivity App | React Native / TypeScript

- Architected authenticated backend APIs using Supabase to support user account management, task storage, and structured relational data models.
- Designed relational schemas and type-safe TypeScript APIs powering a React Native frontend.
- Collaborated in an Agile/Scrum workflow using Git-based version control.

Technical Skills

Programming Languages: Java, C, C++, Python, Lua, TypeScript
Tools & Software: Git, Linux, Claude, Cursor, Supabase, Fiddler Suite, Burp Suite, IntelliJ Suite, Ghidra
Security: Vulnerability research, static analysis, reverse engineering, protocol debugging, exploit development