Jordan E. Day

she/her
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EDUCATION

University of Massachusetts Amherst — Amherst, MA
Bachelor of Science, Computer Science — Expected Graduation: December 2025
Minor, Linguistics — GPA 3.54

Relevant Coursework: Web Programming, Operating Systems, Introduction to Algorithms, Human-Computer Interaction, Computer Networking, Reverse Engineering and Binary Exploitation
Organizations: Cybersecurity Club, UMass Debate Society, APDA Tech Committee

TECHNICAL SKILLS

Languages: C, C++, JavaScript, TypeScript, Java, Python, HTML, CSS, Crystal
Tools: Figma, Git, Docker, Jira (Agile), Wireshark, REST API, GDB, Burpsuite, AWS, Linux, Bash

PROJECTS

Obsidian Plugin - Canvas LMS Tasks

- Designed, developed, and maintained an open-source plugin for Obsidian, enhancing functionality for Canvas LMS users.
- Engineered and integrated multiple API endpoints to streamline user interactions with Canvas LMS.
- Amassed over 200 downloads and reached thousands of users through Obsidian's in-app "Community Plugins" directory.

CVE Writeup & Replication - SoftEtherVPN (CVE-2025-25567)

- Replicated and validated a critical SoftEtherVPN vulnerability and produced a reproducible proof-of-concept to demonstrate real-world impact in a controlled environment.
- Authored a comprehensive writeup that documented root cause analysis, step-by-step reproduction instructions, and an impact assessment for maintainers and engineers.
- Proposed practical remediation steps and a patch to prevent the out-of-bounds write.
- Prepared publication-ready materials and collaborated with teammates to share the writeup and replication artifacts for transparency and reuse.

WORK EXPERIENCE

Amazon - Flex Backend Account Management — Austin, TX
Software Development Engineer Intern — May - August 2025

- Delivered an end-to-end prototype of a launch tool to send tasks to delivery partners, replacing a legacy launcher and de-risking the team's migration to a new task architecture; designed to support 1M+ active delivery partners.
- Implemented backend services and API contracts in Java and integrated with AWS S3 and AWS Lambda to model production flows; merged multiple pull requests and enforced quality through code reviews.
- Led the full design process, produced handoff documentation, and ran three stakeholder demos to gather feedback and align requirements for production rollout.
- Modernized runtime compatibility via JDK 8 $\rightarrow$ 17 migration: identified compatibility issues, updated dependencies, and validated CI builds and tests to improve codebase readiness.

UMass College of Information and Computer Sciences - Reverse Engineering and Exploit Development — Amherst, MA
Undergraduate Course Assistant — September 2025 - Present

- Assisted instruction for COMPSCI 367/590AF, supporting 41 undergraduate, master's, and PhD students in Intel x86/x86-64 assembly, vulnerability analysis, and Linux-focused binary exploitation, typically contributing 7 hours/week.
- Led weekly office hours to clarify exploit techniques (stack/heap/kernel exploitation) and defensive mitigations (ASLR, NX, stack cookies), improving student understanding and assignment completion.
- Mentored a diverse student population across academic levels, adapting technical explanations to background and research focus to accelerate skill development.
- Collaborated with faculty and graduate TAs to design problem sets, evaluate labs, and deliver timely, constructive grading feedback that emphasized secure design patterns.