ADITYA S. GILL

Computer Science Student with Cybersecurity Concentration
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Summary:
Motivated Computer Science student specializing in cybersecurity and digital forensics, with hands-on experience in secure system development, forensic analysis, and applied defense strategies. Certified in CompTIA Security+ and proficient in programming, network investigation, and system hardening.

Core Skills:
- **Programming Languages:** Python, Java, C, TypeScript
- **Web Development:** React, HTML, CSS
- **Cybersecurity & Forensics Tools:** Kali Linux, Autopsy, OSForensics, AlternateStreamView, ADSManager, Nessus
- **Software & Development Tools:** GitHub, Visual Studio Code
- **Virtualization & Cloud:** VMware, Google Cloud (basic experience)

Certifications:
- CompTIA Security+

Education:
Bachelor's Degree University of Delaware, 210 S College Ave, Newark, DE 19716
Expected Graduation Date: May 2026
- Major: Computer Science (BS) with Cybersecurity Concentration
- Relevant Coursework: Computer Networks I, Cloud Computing and Security, System Hardening and Protection
- Cumulative GPA: 3.687

Cybersecurity Labs / Experience:
Network Forensics Investigation (Wireshark, PCAP/PCAPNG Analysis)
- Analyzed 10 packet capture files to reconstruct network activity associated with a simulated cybercrime.
- Extracted transferred files, identified encoded/hidden communications, and documented findings in a structured forensic report.
- Applied Wireshark features (filters, statistics, protocol analysis) to build a timeline of events and quantify data transfers.
- Strengthened investigative techniques in digital forensics and incident response reporting.

Email Forensics (Autopsy / MBOX Analysis)
- Parsed and analyzed an MBOX email dataset using Autopsy to identify communications related to a simulated crime; reconstructed timelines and traced relationships among senders/recipients.
- Located and correlated key accounts and identified encoded and encrypted messages requiring decoding and language-specific keyword searches.
- Extracted attachments and metadata, computed file hashes (MD5/SHA1), and documented evidence chain-of-custody and investigative steps for reproducible reporting.

Projects:
Secure Login System (Python)
- Developed a secure login and registration system with admin functionality, emphasizing cybersecurity best practices.
- Implemented password hashing using bcrypt, strong password validation, and progressive account lockouts to protect against brute-force attacks.
- Designed an admin interface to manage users and audit system activity (showlogs, listusers, removeuser <name>).
- Integrated audit logging for all actions, including registrations, logins, failed attempts, and administrative commands.

Senior Capstone - Group Leader - Current Project
- Crow Indian Virtual Archive & Museum (CIVAM), University of Delaware History Department
- Leading a team to improve and expand CIVAM's online platform, a searchable and annotatable database preserving the history and culture of the Crow Indians of Montana.
- Overseeing development of user-friendly web features to support researchers and historians in accessing virtual representations of cultural artifacts.

Extracurricular Activities:
Cybersecurity Scholars Program
University of Delaware 2022-2023
- Collaborating with peers to analyze critical cybersecurity challenges and develop innovative solutions.
- Gaining expertise in both technical and cultural aspects of cyber defense through research and hands-on projects.