ADITYA S. GILL

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EDUCATION

University of Delaware – Newark, DE
Bachelor of Science in Computer Science, Cybersecurity Concentration
Expected Graduation: May 2026 | **GPA: 3.69**
Relevant Coursework: Digital Forensics, Cloud Computing and Security, System Hardening and Protection, Computer Networks
Certifications: CompTIA Security+ (Active)

EXPERIENCE

Network Forensics Investigation (Wireshark) — University of Delaware (Spring 2025)

- Analyzed PCAP/PCAPNG files using Wireshark to reconstruct activity in a simulated cybercrime.
- Extracted transferred files, identified encoded communications, and built event timelines.
- Documented findings in a forensic report demonstrating chain-of-custody and evidence handling.

Email Forensics (Autopsy / MBOX Analysis) — University of Delaware (Spring 2025)

- Investigated simulated email-based conspiracy by parsing MBOX files using Autopsy.
- Correlated communications, extracted attachments, and identified encrypted messages.
- Produced reproducible reports with metadata and hash validation for all evidence.

Cybersecurity Scholars Program — University of Delaware (2022–2023)

- Collaborated with peers to research and propose innovative cybersecurity defense strategies.
- Gained experience in applied cybersecurity, digital forensics, and ethical analysis of cyber threats.
- Collaborated with faculty mentors and peers on interdisciplinary research addressing real-world cyber threats.

PROJECTS

Secure Login System (Python, bcrypt): Github

- Developed a secure login and registration system emphasizing password security and auditing.
- Implemented bcrypt hashing, account lockouts, and an admin interface for user management.
- Logged all login attempts and administrative actions for accountability and traceability.

Steganography Tool (Python, Tkinter GUI): Github

- Built a Python-based steganography application with a GUI for hiding and extracting secret messages in PNG images.
- Used Least Significant Bit (LSB) encoding to embed data at the pixel level while keeping the image visually unchanged.
- Designed an intuitive interface for users to easily encode, decode, and verify hidden messages.

Senior Capstone (Current Project) — Crow Indian Virtual Archive & Museum (CIVAM)

- Leading a team improving the Crow Indian Virtual Archive & Museum (CIVAM) web platform.
- Managing feature design and development for searchable artifact databases and annotations.
- Coordinating with the University of Delaware History Department to enhance researcher and historian access.

TECHNICAL SKILLS

- **Languages:** Python, Java, C++, TypeScript
- **Web Development:** React, HTML, CSS
- **Cybersecurity & Forensics:** Kali Linux, Wireshark, Autopsy, OSForensics, nmap, vulscan, Nessus, Splunk, Metasploit, FTK Imager, AlternateStreamView
- **Development Tools:** GitHub, Visual Studio Code, CLion, Intellij, Thonny
- **Virtualization & Cloud:** VMware, UTM, Google Cloud (basic)

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