

Chirag Dewan

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SUMMARY

Cyber Research Scientist with a strong background in vulnerability research, reverse engineering, and penetration testing. Adept at building secure solutions like C2 servers and validating defenses with PoC exploits. Known for problem-solving, collaboration, and effectively communicating complex findings to technical and non-technical teams. Holds an active Top Secret Clearance, enabling contributions to high-stakes government and defense projects.

WORK EXPERIENCE

RTX BBN

May 2024 – Present

Cyber Researcher

Cambridge, MA

- Built custom packet parsers and implemented algorithms for anomaly detection, increasing protocol test coverage by 35% and reducing response time for threat analysis by 20%.
- Reverse-engineered firmware using Ghidra and IDA Pro, uncovering vulnerabilities like buffer overflows, leading to a 25% improvement in system hardening through patch validation.
- Developed and tested proof-of-concept (PoC) exploits, validating mitigation strategies and reducing exploit feasibility by 40%.

Raytheon, RTX

June 2023 – May 2024

Cyber Engineer

Aurora, CO

- Partnered with development and security teams to resolve high-risk misconfigurations, reducing attack vectors by 35% and improving overall system resilience.
- Hardened Linux (RedHat) systems by configuring SELinux and deploying vulnerability scans, blocking unauthorized access attempts.
- Communicated technical findings to cross-functional stakeholders, fostering alignment on security priorities and accelerating the implementation of critical fixes.

Senior Cyber Engineering Intern

May 2022 – June 2023

- Simulated real-world attacks using Metasploit and Burp Suite, validating defenses and strengthening security posture by 20%.
- Conducted penetration testing and reverse engineering on legacy systems, identifying and mitigating over 15 critical vulnerabilities.

Reata Pharmaceuticals

May 2021 – August 2021

Information Security Intern

Plano, TX

- Performed regular scans using Nessus and OpenVAS, identifying high-priority risks and collaborating on fixes to reduce vulnerabilities by 25%.

EDUCATION

Arizona State University

Tempe, AZ

Masters of Science, Computer Science

(Expected Graduation Date) August 2026

Bachelor of Science, Computer Science

May 2023

CERTIFICATIONS, SKILLS & INTERESTS

- **Certifications:** CompTIA Security+, CompTIA Network+, AWS Certified Cloud Practitioner, OSCP (In Progress)
- **Programming Languages:** Python, C, JavaScript, Bash, Shell Scripting, PowerShell, Go, Rust, SQL
- **Cybersecurity Tools:** Splunk, Wireshark, Metasploit, Burp Suite, Nessus, Nmap, OpenVAS, Ghidra, IDA Pro
- **Networking & Protocols:** TCP/IP, DNS, TLS, Packet Analysis, Firewall Configuration
- **Cloud & DevOps Security:** AWS (EC2, S3, IAM, CloudFormation), Docker, Kubernetes, Terraform, Jenkins