

Aaditya Gupta

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PROFESSIONAL SUMMARY

Dynamic Offensive Security Specialist with over 5 years of hands-on experience in penetration testing, vulnerability assessment, secure coding, and red teaming. I have a proven record of fortifying digital infrastructures and mitigating critical threats by uncovering both tool-detected vulnerabilities and complex business logic flaws that often escape automated scans. Currently advancing my expertise with a Master's in Cyber Security at Arizona State University, I bring robust technical skills in network and application security, full-stack development, CI/CD, and secure code reviews. My technical acumen not only drives innovative solutions but also facilitates clear communication and seamless collaboration with development teams. My innate curiosity and relentless drive empower me to proactively embrace new challenges and deliver exceptional results

EDUCATION

Master of Science in Cyber Security

Aug 2023 – May 2025

Arizona State University, Tempe, AZ

Coursework: Advanced Network Security, Applied Cryptography, Advanced Application Security

Bachelor of Technology in Computer Science

July 2015 – May 2019

Visvesvaraya National Institute of Technology, Nagpur, India

CERTIFICATIONS

- **OSCP** (Offensive Security Certified Professional, Offensive Security) *Sep, 2024*
- **OSWA** (Offensive Security Web Assessor, Offensive Security) *Jan, 2024*
- **eCPTX** (Certified Penetration Tester eXtreme v2, eLearnSecurity) *Oct, 2023*
- **eWPTX** (Web Application Penetration Testing eXtreme, eLearnSecurity) *Sep, 2023*
- **BlackSky ProLabs, HackTheBox** - AWS, Azure *Mar, 2023*
- **eJPT** (Junior Penetration Tester, eLearnSecurity) *Jul, 2022*
- **PNPT** (Practical Network Penetration Tester, TCM Security) *May, 2022*
- **CRTP** (Certified Red Team Professional, Altered Security) *Mar, 2022*
- **CEH Practical** (Certified Ethical Hacker, EC Council) *Apr, 2022*

EXPERIENCE

One Oak Flow, Scottsdale, AZ

May 2024 – Dec 2024

Security Engineer

- Developed modules for a vacation rental website framework including front-end, back-end, and middle-ware services with strong security controls.
- Conducted comprehensive penetration testing on the created website framework, identifying, exploiting, and mitigating 20+ vulnerabilities and boosting website trust.
- Implemented CI/CD pipelines, security architecture, and threat modeling.

Experian, Hyderabad, India

Nov 2021 – Aug 2023

Associate Penetration Tester

- Led penetration testing engagements for web applications, APIs, and network infrastructures using tools like Rapid7 Insight Scanner, VeraCode, Burp Suite, and custom scripts.
- Developed 20+ exploit scripts and a standardized comprehensive vulnerability checklist based on functionality, increasing testing efficiency by 30% and reducing false positives by 25
- Collaborated with development teams to deploy security patches, reducing delivery time.
- Initiated and led cloud security training sessions, improving team proficiency and cloud security posture by 40%.

Wells Fargo, Bangalore, India

July 2019 – Nov 2021

Senior Software Engineer

Jan 2021 – Nov 2021

- Implemented CI/CD configurations for 8 applications, reducing the deployment time by more than 50%.
- Led secure code review processes using tools like VeraCode and Black Duck to identify vulnerabilities and mitigated 90% of the vulnerabilities in code bases.

Application Systems Engineer

July 2019 – Jan 2021

- Migrated 4 legacy applications from .Net to Java Spring Boot with enhanced security controls. Identified and fixed 9 high risk vulnerabilities during the process.
- Developed KSH scripts for automated maintenance, reducing manual intervention by 40% and downtime by 25%.

Deloitte, Bangalore, India

May 2018 – July 2018

Application Programmer Intern

- Developed Salesforce services using Apex, Visual Force, SOSL, and SOQL; implemented Lightning Components to streamline the SDLC.

CyberEye Research Labs & Security Solutions, Delhi, India

May 2017 – Dec 2017

Cyber Security Researcher Intern

May 2017 – July 2017

- Created comprehensive VAPT training materials, improving trainee performance by 35%.
- Developed 10+ CTF-style challenges using Docker and CTFd, boosting engagement by 40%.

Cyber Security Researcher Intern

Nov 2017 – Dec 2017

- Researched Android Security topics including spyware development, custom ROM modifications, and vendor OTA update exploits.

SKILLS

Penetration Testing: Web Applications, Web API, Network, Android, Active Directory

Programming: Python, Bash, Java, PowerShell, C/C++, Next.js

Web Development: Django, Payload CMS, Spring Boot, MySQL, MongoDB, Tailwind CSS

Security Frameworks: OWASP, MITRE ATT&CK, NIST, PCI-DSS, GDPR, ISO 27001

Cloud Security: AWS, Azure, GCP

Network & Web Protocols: TCP/IP, UDP, IPSEC, HTTP/S, Routing Protocols

Tools: Metasploit, Burp Suite, Wireshark, Nmap, OWASP ZAP, Nessus, SQLmap, Cobalt Strike

Operating Systems: Kali Linux, Parrot Security OS, Windows, Linux

Other Skills: Exploit Development, Red Teaming, Vulnerability Management, Reverse Engineering

RECENT ACHIEVEMENTS

Red Team Rumble Winner

DEF CON 2024

Red Team Village

- Led a team to secure first prize in the Red Team Rumble competition, demonstrating advanced penetration testing and red teaming skills.