

Naga Surya Dhanush Viyyapu

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Summary

Dedicated and detail-oriented Security Engineer with experience in application security (AppSec), vulnerability assessment, and penetration testing (VAPT). Adept at identifying and mitigating security vulnerabilities to enhance organizational resilience. Known for effective communication, problem-solving, and a collaborative leadership approach. Seeking to leverage technical expertise and skills to drive proactive security initiatives and strengthen cybersecurity frameworks.

Skills

Programming Languages & DBMS: Python, JavaScript, SQL.

Security: Web & Mobile Application Pen-testing, OWASP Top 10, SAST, Threat Modeling-Risk analysis, Secure Design Reviews, NIST RMF, CIS benchmarks, Cloud Security.

Tools: nMap, SQLMap, MetaSploit, Burp Suite, Nikto, Nessus, Wireshark, Snyc, AppScan, Checkmarx.

Networking and protocols: TCP/IP, OSI, DNS, TLS, SSH, HTTP/HTTPS.

Experience

Human Health Project (NGO)

Remote, USA

Application Security Engineer

01/2024 – Present

- Achieved a 50% reduction in high-risk findings by integrating SAST and DAST tools into the DevOps pipeline, conducting weekly scans, and reducing security vulnerabilities from 40 to 20 per month.
- Reduced identified vulnerabilities by 15% by conducting monthly threat modeling exercises that identified and prioritized 20 potential attack vectors, enhancing overall security.
- Establish a security champions program, fostering a culture of security awareness across development and operations teams.
- Perform penetration testing activities, including planning, executing, and analyzing tests on web apps and cloud environments.
- Lead weekly security knowledge sharing sessions, increasing team awareness of emerging threats and mitigation strategies.

AREVONIN

Rockville, MD

Cybersecurity Research Associate

09/2023 – 12/2023

- Collaborated with development teams to automate security testing processes and integrate security tools into CI/CD pipelines.
- Deployed security controls that fortified data protection, resulting in a 25% reduction in preparation time for compliance audits.
- Participated in adversarial security analysis exercises, assisting in identifying attack vectors and potential security weaknesses in more than 10 applications.

Synopsys Inc

Remote, USA

Associate Security Consultant

01/2023 – 05/2023

- Played a pivotal role in elevating security standards through comprehensive penetration testing of web and mobile applications, ensuring robust security measures were in place.
- Conducted thorough manual code reviews for security vulnerabilities, and best practices to identify and address potential security issues, enhancing overall code quality and security posture.
- Assisted clients with threat modeling activities, providing valuable insights and guidance to identify and mitigate security risks effectively across their software projects.
- Revamped the new hire onboarding training program, reducing time to billable by 25% and mentoring 50+ consultants.

Security Consulting Intern

05/2022 – 12/2022

- Conducted comprehensive penetration tests on web applications for Fortune 500 clients in banking, healthcare, and financial services.
- Prepared and delivered detailed security assessment reports to clients, including risk assessments and mitigation strategies, resulting in improved security postures and a 30% increase in client satisfaction and compliance with industry standards.
- Maintained the design and implementation of a security awareness training program for employees, gaining experience in increasing awareness of common security threats.

Virtusa

Associate Engineer – Technology

Hyderabad, India

10/2020 – 06/2021

- Coordinated vulnerability remediation efforts across teams, achieving a 90% closure rate of critical vulnerabilities within SLA timelines.
- Utilized advanced penetration testing tools and frameworks such as Cobalt Strike, Metasploit, and Empire to simulate sophisticated cyber threats.
- Supported the development and implementation of security automation scripts and tools, streamlining repetitive security tasks and improving overall efficiency within the development lifecycle.
- Automated the generation of security reports using scripting languages, providing real-time insights into the organization's security posture.

Paralok Information Security Pvt Ltd

Information Security Analyst Intern

Hyderabad, India

12/2019 – 2/2020

- Developed automation scripts using Python, Bash to streamline security processes, including log analysis, vulnerability scanning, and incident response
- Implemented and maintained automated scanning schedules, ensuring regular assessment of critical systems and timely identification of vulnerabilities.
- Developed detailed vulnerability reports outlining findings, risk levels, and recommended remediation steps, improving the organization's security posture.

Projects

Damn Vulnerable Mobile Application

- Designed and implemented a mobile application aimed at teaching and training Mobile Application Security Testing (MAST) techniques to security professionals and students, resulting in a 40% increase in training efficiency.
- Implemented automated security testing in the CI/CD pipeline, achieving early detection and mitigation of security issues.
- Integrated multi-factor authentication (MFA) using biometrics and OTP, significantly enhancing user account security.

Secure Pet Adoption Application

- Performed secure code reviews and threat modeling, leading to the identification and remediation of over 50 critical security flaws, significantly enhancing the application's security posture.
- Employed both Dynamic Application Security Testing (DAST) and Static Application Security Testing (SAST) to identify and mitigate vulnerabilities. Successfully tested against OWASP Top 10 and SANS Top 25 vulnerabilities.

Education

University of Maryland

Master of Engineering, Cybersecurity

(Key Courses: Secure Software Engineering, Penetration Testing, Cloud Security)

College Park, MD

CMR College of Engineering & Technology

Bachelor of Technology, Computer Science

Hyderabad, India

Certifications

- Certified Ethical Hacker (CEH)
- Offensive Security Certified Professional (in-progress)

Accomplishments

- 3rd place among other 2000 members in CTF competition organized by TECHNEX IIT BHU.
- 2nd place among 3000 teams participated in boot2root CTF.