

Naga Surya Dhanush Viyyapu

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WORK EXPERIENCE

Human Health Project (NGO)

College Park, MD

Application Security Engineer

August 2023 – Present

- Conducted threat modeling exercises to identify potential attack vectors and prioritize security measures accordingly.
- Led the implementation of secure code practices, utilizing expertise in Python language to fortify application security.
- Supported the design and implementation of a security awareness training program for employees, gaining experience in increasing awareness of common security threats.
- Drive compliance efforts for GDPR, PCI DSS, and HIPAA, ensuring adherence to regulatory standards and mitigating risks.

Axle Informatics

Rockville, MD

Cybersecurity Research Associate

Sept 2023 – Dec 2023

- Conducted manual and automated secure code reviews in Python, and JavaScript, contributing to the identification and remediation of security vulnerabilities in production codebases.
- Collaborated with development teams to automate security testing processes and integrate security tools into CI/CD pipelines.
- Participated in adversarial security analysis exercises, assisting in identifying attack vectors and potential security weaknesses in applications and infrastructure.
- Performed penetration testing activities, including planning, executing, and analyzing tests on web apps and cloud environments.

Synopsys Inc

College Park, MD

Associate Security Consultant

May 2022 – May 2023

- Engineered and implemented automated security testing using industry-standard tools like Burp Suite and OWASP ZAP, identifying web application vulnerabilities.
- Conducted thorough manual code reviews for security vulnerabilities, and implementing 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.

Virtusa Corporation

Hyderabad, India

Associate Engineer – Technology

July 2020 - June 2021

- Researching, identifying, and implementing top 10 best security practices for all systems and service deployments.
- Supported the development and implementation of security automation scripts and tools, streamlining repetitive security tasks and improving overall efficiency within the development lifecycle.

EDUCATION

University of Maryland

College Park, MD

Master of Engineering, Cybersecurity

SKILLS & CERTIFICATIONS

Programming and Development: C, Java, JavaScript, Python, ReactJS, SQL, AWS, .NET, GIT, Docker, Jenkins.

Cybersecurity: SQLMap, MetaSploit, Burp Suite, Nessus, Nikto, Wireshark, nMap, Yara, Snyk, AppScan, Bandit, DAST, SAST, SCA, Identity and Access Management, Vulnerability Assessment, Web Application Pen-testing, Security Automation, Incident Response, Risk Mitigation, cryptography.

Security Frameworks and Standards: OWASP Top 10, STRIDE, NIST RMF, CIS benchmarks.

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

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

ACHIVEMENTS

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