

# Mahendra Thanniru

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Experienced Security Professional (5+ yr) skilled in vulnerability research and penetration testing with a strong passion for security-at-scale. Good at solving complex technology problems, and built tools to automate manual efforts.

## PROFESSIONAL EXPERIENCE

### Amazon

India

Security Engineer

Aug 2022–Present

- Identified Critical Authentication bypass in Internal JWT library utilised by 36+ products through vulnerability research and provided optimal patch.
- Performed full stack product security review for 5 applications that are already in production and found 20+ vulnerabilities that lead to increase their security by 30%.
- Developed a centralised aws cloud misconfiguration scanner which is integrated with multiple internal engines and provides consolidated results with recommended patches.

### VMware

India

Product Security Engineer

May 2021–Aug 2022

- Mitigated 10+ Critical vulnerabilities at the design phase through threat modeling across multiple products and helped in reducing the attack surface by 40% with a long-term threat mitigation plan.
- Through security code review and vulnerability research reported 20+ critical and high severity vulnerabilities affecting multiple on-prem and SaaS products. Worked closely with the developer to provide defense in depth mitigation to future proof the product and limit the attack's blast radius.
- Taken responsibility to eliminate more than 10+ bug classes across multiple products by enforcing secure default code patterns and hardening infra.
- Developed custom tools in python and golang as part of the automation initiative led by me to find dependency confusion and other common vulnerabilities code patterns.

### ServiceNow

India

Product Security Engineer

Feb 2021–May 2021

- Identified 1 critical deserialization vulnerability and 3 high severity vulnerabilities in the ServiceNow Core platform through Security code review. Worked closely with Dev to provide defense in depth security fixes.
- Delivered talk on common vulnerability and code patterns to educate developers as part of the security champion program.

### OpenText

India

Software Engineer

Oct 2019–Feb 2021

- Developed multiple features for OT healthcare SaaS and containerized its services to reduce down and increase performance by 30%
- Lead the infrastructure migration for critical patch delivery service which increased availability and security to 50%
- Lead for security code review for all services and conducted office hours on finding security vulnerabilities through code audit as part of developer education.

## PROFESSIONAL ACCOMPLISHMENTS

- Certifications: OSCP, HCNA, CKAD
- Published CVE-2022-1553 for a critical Auth bypass in OSS and Contributed secure code to multiple OSS projects
- Submitted bugs to Paypal, Snapchat, Librepay, Upwork, Twitter through their bug bounty program.
- Documented Vulnerability research and critical Pentest finding in my **Blog**: <https://mah1ndra.github.io/>.
- Part of **Synack Red Team** - Perform Red Team engagements on provided IP ranges and submit vulnerabilities.
- Awarded Elevate our best award at VMware for evaluating Log4j and patching multiple products through automation in a very short span and secure critical Federal and healthcare Infrastructure.
- Well versed in Securing OAuth, OpenID, SAML, JWT Implementations and service oriented architectures, web, Mobile.