

# Mahendra Thanniru

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## Summary

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Security professional from a Developer background versed in security engineering and penetration testing techniques. creative problem-solving abilities. Works well in a team or independently. Well versed in security assessments of Web, Host, Cloud, Secure Code Review and their automation. A keen learner who constantly improves skills from industry certifications and the security community.

## Experience

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### Product Security Engineer: May-2021 to Current

#### VMWare, India

- Perform Baseline and Feature level Attack Surface Analysis (ASA) and Security Testing (ST) on the products involving Threat modeling, Security System Design review, and performing ST on the resulting Attack surface.
- Perform Security Assessment on CI/CD Pipelines involving Jenkins jobs, Artifactory, Docker registry, GitLab svc, on Prem K8s for potential misconfiguration and supply chain vulnerabilities.
- Security review Azure Kubernetes cluster and docker container for potential misconfigurations, RBAC issues, and privilege escalations.
- Based on the Security Reviews create/update Level-1, Level-2 Threat Models of the products to keep their Attack surface up to date.
- Perform Host security Assessment on Windows/Linux servers for potential privilege escalation vulnerabilities and misconfigurations.
- Perform manual Security code review along with SAST tool - Coverity, SCA - Black Duck, on new releases of the product.
- Give Tech Talks on exploiting vulnerabilities, Defense in depth mitigations, and new attack vectors.

### Product Security Engineer: Feb-2021 to May-2021

#### ServiceNow, India

- Perform regular Security reviews on the Core ServiceNow Platform involves Updating Threat Model, manual secure code review, writing custom Fortify(SAST) rules, SCA using Black Duck for all the features included in the release.
- Security review Applications built using ServiceNow Platform involving manual secure code review of JS, Java changes, running Fortify and triage issues, Access Control Issues.
- Lead Security Champions program for developers involves providing talks on security topics- secure code guidelines, defense-in-depth implementation, Conducting CTF's.

### Associate Quality Assurance Engineer: Oct-2019 to Feb-2021

#### OpenText, India

- Developed feature's for Healthcare applications in Java and containerizes them into docker images.
- Built AWS Infra to host the containerized applications along with storage and network solutions.
- Built Installation and patch binaries for Redhat and OpenBSD OS.

- Perform Functional and Security Testing on developed features along with performing peer code review, SCA - Black Duck, and SAST - Fortify.
- Host CTF's with the secure code review theme using - Java, Php, JS as part of the Security champions program.

**Engineering Intern:** March-2019 to Oct-2019

**OpenText, India**

- Worked with the I-HUB web team in developing custom charts for the I-HUB portal.
- Improved chart rendering functionality up by 10% and introduced a couple of new charts.
- Perform Functional and Security Testing including code reviews.

**Google CodeIn Contributor:** sep-2018 to Dec-2018

**ScoreLab, remote**

- Contributing to OpenSource projects by developing new features and fixing existing issues.
- Mentoring peer students to improve OSS awareness and knowledge.
- Contributed to the following Projects: ScoreLab, Coala, FossAsia.
- **Github:** <https://github.com/mah1ndra>

**DevOps Engineer Intern:** Jul-2018 to Oct-2018

**HostingDesire, India**

- Worked on Developing Dockery compose files for Containerizing existing applications.
- Configure RedHat Linux servers on GCP and AWS with Docker environment and install all product solutions.

## Education

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Bachelor of Technology: **Computer Science - 2020**

**B V Raju Institute of Technology - Hyderabad, Telangana, India.**

## Professional Accomplishments

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- Offensive Security Certified Professional (**OSCP**)
- Huawei Certified Network Associate (**HCNA**)
- Submitted **bugs** to Paypal, Snapchat, Librepay, Upwork, Twitter
- Part of **Synack Red Team** - Perform Red Team engagements on provided IP ranges and submit vulnerabilities.
- **Pro Hacker** rank in **HackTheBox** platform. Performed penetration testing on over **100+** machines based on different OS and stacks. Profile: <https://www.hackthebox.eu/profile/21314>
- **Blog:** <https://mah1ndra.github.io/> where I've documented detailed writeup of interesting machines I came across on my pentest.
- Certified Kubernetes Application Developer (**CKAD**)

## Skill Highlights

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- Security Assessment: Web Applications, Host(Linux, Windows), Kubernetes, Docker.
- SAST - Coverity, Fortify
- SCA - Black Duck

- Reverse 1-day exploits, CVE's to understand and perform Root cause Analysis and automating complete exploit chain
  - Scripting Knowledge - Golang, Bash, Python
  - AV Evasion Techniques, persistence, Network Pivoting.
  - BurpSuite, DirBuster, SQLMap
  - Proficient in Linux, Windows
  - Privilege Escalation Techniques (Linux/Windows)
  - Exploiting GraphQL, REST, SOAP API's misconfigurations
  - Secure Source code review: C#, Java, c++, python, php, JS, Golang.
  - Cloud Infra Assessment - AWS, Azure infrastructure components
  - Virtualization - VMWare, Docker, Kubernetes.
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