

Sathwik Mohan Vallala

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SUMMARY

I am a results-driven and forward-thinking security professional with a proven track record in security monitoring and response, and hands-on security operations. With over five years of experience, I excel in detecting, defending against, and responding to threats, while also contributing to the development of robust security architectures. My pragmatic and business-oriented approach ensures that security measures are aligned with organizational objectives, while my empathetic communication style fosters effective collaboration across teams. I thrive in dynamic environments, leveraging my expertise to lead projects independently and support compliance standards. Passionate about staying ahead of the evolving threat landscape, I am committed to continuously enhancing security measures to protect assets and mitigate risks effectively.

EXPERIENCE

Product Security Engineer (CarbonBlack)

Broadcom Inc.

Nov. 2023 – Present

Herndon, VA

- Evaluate & Investigate critical security issues with industry standard scoring system.
- Perform manual & automatic penetration testing.
- Conduct security assessments and threat modeling for engineering teams.
- Coordinate with product teams to ensure resolution of the security issues.

Security Response Engineer

VMWare Inc.

Apr. 2022 – Nov. 2023

Herndon, VA

- Triage & Investigate security issues in wide range of products of VMWare.
- Analyze the root cause with pentesting and secure source code reviews.
- Score the security issues with industry leading CVSSv3.0 & CVSSv3.1.
- Participate in product penetration testing projects.
- Communicate with product teams to make sure the issue is fixed.
- Create automations to improve team performance.

Digital Forensic Researcher & Developer

ADF Solutions Inc

Dec. 2020 – Mar. 2022

Reston, VA

- Test and verify the proper functioning of existing digital artifact collection modules.
- Research, document, and implement, and validate digital artifact collection modules.
- Find innovative solutions to the collection of digital artifacts.
- Work with team members and across teams to assist and execute tasks and projects as assigned.
- Develop plugins to parse and extract different artifacts and evidences using python scripting.
- Test, validate and integrate the developed plugins into DEI Tool.
- Develop plugins on request of customer or supervisor as required.

Bug Bounty Hunter

Freelance

Oct. 2019 – Oct. 2020

- Hunt & test for vulnerabilities in web-applications.
- Report any found vulnerabilities to the website owners.
- Perform vulnerability assessments.

Trainee Security Analyst - Internship

SOC Experts

Jul. 2019 – Oct. 2019

Bangalore, India

- Perform organizational defense using different SIEM tools.
- Use tools like Splunk, IBM QRadar, LogRhythm to perform log analysis/monitoring.
- Perform basic digital forensics.
- Work effectively in a security operation center (SOC) simulation.

Security Analyst - Internship

Berry9 IT Services Pvt Ltd

Jun. 2017 – Jun. 2018

Hyderabad, India

- Learn Ethical Hacking as passion.
- Work on penetration testing project of a health care company.
- Successfully complete CEH certification.

EDUCATION

George Mason University

Master's of Science in Digital Forensics and Cyber Analysis - 3.89/4.0

Fairfax, VA

Jan. 2020 – Dec. 2021

Jawaharlal Nehru Technological University

Bachelor's of Technology in Computer Science Engineering - 4.0/4.0

Hyderabad, India

Aug. 2015 – Aug. 2019

PROJECTS

Autopsy WhatsApp Plugin <i>Python, Forensics, Evidence</i> <ul style="list-style-type: none">• A plugin developed as a plugin which supports popular forensics tool <i>Autopsy</i>.• Extract and parse evidence from <i>WhatsApp</i> application in <i>Windows</i>.	Apr. 2020 – May 2020
Chat over network with Python <i>Python, Network, Encryption</i> <ul style="list-style-type: none">• A project developed to with <i>privacy</i> as main focus.• Chat between parties are encrypted from end to end.• Server can be self hosted and can be connected from anywhere.	Jun. 2018 – Jul. 2018
File Sharing <i>PHP, HTML, SQL, Network</i> <ul style="list-style-type: none">• A project developed to share files in the same network.• Protected with <i>password authentication</i> and can be self hosted.	Mar. 2018 – Apr. 2018

CERTIFICATIONS & AWARDS

Security Code Review Ninja - 2nd Degree Black Belt <i>Secure Coding Dojo</i>	December 2023
Digital Evidence Investigator <i>ADF Solutions</i>	December 2020
Certified Autopsy User <i>Basis Technology</i>	October 2020
Certified Ethical Hacker <i>EC Council</i>	October 2017

TECHNICAL SKILLS

Professional: Forensic Analysis, Malware Reverse Engineering, Network Forensics, Memory Forensics, Penetration Testing, Incident Response, Log Analysis, Security Event Management, Ethical Hacking, Vulnerability Assessment, Threat Hunting, Open Source Intelligence, SAST, DAST

Tools: EnCase, FTK, Autopsy, Black Bag, X-Ways, AXIOM, Volatility, Tcpdump, Falcon, WinHex, OllyDbg, IDA, Ghidra, Snort, Zeek, Hashing, Write Blocker, Splunk, IBM QRadar, Log Rhythm, Metasploit, Burpsuite, ZAP, OWASP, Linux, Nmap, Wireshark, Ettercap, Aircrack-ng, SQLMap, Hydra, John the ripper, Nikto, Nessus, Open Source Security Tools

Programming Languages: Python, Bash, SQL, PHP