

# Sathwik Mohan Vallala

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## EXPERIENCE

### Product Security Engineer – *Broadcom*, Reston, VA

NOV. 2023 – PRESENT

- Investigate & Evaluate 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*, Reston, VA

APR. 2021 – NOV. 2023

- Triage external reports, identify core issues in code, and provide fixes.
- Validated and reviewed open source software vulnerabilities.
- Created unique innovative solutions that increased our efficacy and greatly improved our efficiency.

### Digital Forensic Researcher – *ADF Solutions Inc*, Reston, VA

DEC. 2020 – PRESENT

- Research various OS's & Apps for critical evidence.
- Write python scripts to extract/parse the artifacts.
- Test and validate triage tools and evidence extractors.

### Bug Bounty Hunter – *Freelance*, International

OCT. 2019 – OCT. 2020

- Discover vulnerabilities in web-applications using Burpsuite or ZAP Proxy.
- Automate vulnerability scanning with Python & Open Source Tools.
- Report any found vulnerabilities to the website owners.

### Security Analyst Intern – *SOC Experts*, Bangalore, India

JUL. 2019 – OCT. 2019

- Use different SIEM tools for organisational defense..
- Tools like Splunk, LogRhythm are used to perform log analysis/monitoring.
- Investigate and manage Incidents and Events on Windows Servers.
- Use basic digital forensics for incident investigations.

## EDUCATION

### MS in Digital Forensics – *George Mason University*, Fairfax, VA

JAN. 2020 – DEC. 2021

- GPA: 3.88/4.0

## PROJECTS

### Autopsy WhatsApp Plugin

APR. 2020 – MAY 2020 – *GMU*

[Github](#)

- A python script developed to Extract and Parse evidence from *WhatsApp* application logs generated by desktop *WhatsApp*.

### Chat over network with Python

JUN. 2018 – JUL. 2018 – *Self*

[Github](#)

- A self hostable chat application with privacy in focus and encrypted over network.

## SKILLS

### Professional

Ethical Hacking  
Vulnerability Assessment  
Web Application Penetration Testing  
Network Penetration Testing  
Mobile Application Penetration Testing  
Incident Response  
Digital Forensic Analysis  
Network Forensics & Memory Forensics  
Malware Reverse Engineering  
Security Incident & Event Management  
Threat Hunting  
Open Source Intelligence

### Tools

EnCase, FTK, Autopsy, Falcon, WinHex, Black Bag, X-Ways, AXIOM, Volatility, IDA, Ghidra, Tcpdump, OllyDbg, Snort, Zeek, Hashing, Yara, Write Blocker, Splunk, IBM QRadar, LogRhythm, SOC, SIEM, DFIR, IOC, OSI Layers, Metasploit, Burpsuite, ZAP, OWASP, MITRE ATT&ACK, Nmap, Wireshark, Ettercap, TCP/IP, IDS/IPS, IPsec, Aircrack-ng, SQLMap, Hydra, John the Ripper, Nikto, Commix, Nessus, Kali, Linux

## CERTIFICATIONS

### Digital Evidence Investigator

*ADF Solutions*

DECEMBER 2020

### Certified Autopsy User

*Basis Technology*

OCTOBER 2020

### Certified Ethical Hacker

*EC Council*

OCTOBER 2017

## VOLUNTEERING

### Instructor

JAN 2019 – MAY 2019

*KMIT Cyber Security Club*

### Vice President

JAN 2016 – NOV 2016

*HYA - Street Cause*