

# Sathwik Mohan Vallala

Fairfax, VA, USA  
+1(571) 373 6079  
sathwikv143@gmail.com  
linkedin.com/in/sathwik-mohan  
github.com/sathwikv143

## EXPERIENCE

### 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.

### Security Analyst Intern – Berry9 IT Services Pvt Ltd, Hyderabad, India

JUN. 2017 – JUN. 2018

- Perform external penetration testing on Health Care project.
- Run black box pen-testing on educational project.
- Successfully complete CEH certification.
- Learn practical Ethical Hacking.

## EDUCATION

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

JAN. 2020 – DEC. 2021

- GPA: 3.88/4.0

### Bachelor's in Computer Science Engineering – Jewaharlal Nehru

Technological University, Hyderabad, India

AUG. 2015 – AUG. 2019

- GPA: 4.0/4.0

## PROJECTS

### Autopsy WhatsApp Plugin

APR. 2020 – MAY 2020 – GMU

[Github](#)

- A plugin developed as a plugin which supports popular forensics tool *Autopsy*.
- Extract and parse evidence from *WhatsApp* application in *Windows*.

### Chat over network with Python

JUN. 2018 – JUL. 2018 – Self

[Github](#)

- A project developed to with *privacy* as main focus.
- Chat between parties are encrypted from end to end.
- Server can be self hosted and can be connected from anywhere.

## 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

## PROGRAMMING

Python  
Bash  
PowerShell  
SQL  
PHP

## 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