



Siddhartha Malladi

Security Researcher

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👤 Profile

a passionate Security Researcher with 3+ years of hands-on expertise in malware analysis, reverse engineering, and vulnerability assessment and management. Active participant in Capture The Flag (CTF) competitions, consistently leveraging problem-solving skills to outsmart challenges and contribute to a dynamic cybersecurity landscape.

👜 Professional Experience

Security Researcher

Uptycs, Inc. 📄

2022/08 – present | Bangalore, India

- Building and testing exploits for known vulnerabilities/zero days and develop coverage for it.
- Technical blogging of vulnerabilities, malwares.
- Reverse Engineering of malware samples.
- Developed automation scripts to aid in research and analysis

Intern

Microfocus

2022/03 – 2022/08 | Bangalore, India

- Learned java fundamentals and how to build maven projects and usage of Eclipse.

Security Research Intern

Uptycs, Inc. 📄

2021/07 – 2022/01 | Bangalore, India

- Worked on different types of OSX malwares and tested them on macOS for enhancing Uptycs EDR.
- Worked on macOS matrix in MITRE ATT&CK techniques and developed POCs for the same to validate them on Uptycs EDR.
- Developed a tool to automate the validation process.

CTF Player & Team Lead

Teambi0s (bi0sblr)

2019/01 – 2022/01 | Bangalore, India

- Played CTFs, authored and solved CTF challenges primarily in Reverse Engineering, Cryptography and published writeups.

🎓 Education

Amrita Vishwa Vidyapeetham

Btech in Electronics and Communication Engineering

2018/07 – 2022/07 | Bangalore, India

- CGPA - 8.48/10

FIITJEE Junior College

Higher Secondary

2016/06 – 2018/06 | Vijayawada, India

- Percentage Obtained - 94.8%

🧠 Skills

Languages

C, Python3, Assembly(x86,ARM)

Frameworks

Pwntools, Volatility, Git, Wireshark

Platforms

GNU/Linux, macOS

Tools

IDA, Ghidra, Cisco Packet Tracer, MATLAB

Soft Skills

Team Player, Problem Solving, Leadership

📄 Publications

PoC Exploit: Fake Proof of Concept with Backdoor Malware 📄

Uptycs

2023/07/12

A deceptive twist has appeared within cybersecurity norms —a proof of concept (PoC) that, rather than demonstrating a vulnerability, stealthily harbors a hidden backdoor.

Inside the WinRAR Vulnerability: Decoding & Bolstering Protection 📄

Uptycs

2023/09/08

What sets this issue apart is its deceptive simplicity: an attacker can mask malicious scripts within a ZIP file, misleading both users and rudimentary security controls.

- Supervised in recruiting students to the team, and trained them by conducting sessions. Also planned team's yearly goals and conducted performance assessments for steady improvement of the team ranking in International Capture the Flag (CTF) contests.

Achievements

Top 100 in TCS HackQuest Season 7

TCS

2023/03

TCS HackQuest season 7 organized by TCS Cyber Security Unit based on the popular "Catch the Flag" (CTF) format, the competition presents a series of challenges to be completed in 6 hours. Got Placed in top 100 where many students, experienced professionals participated from all over the country.

Top 10 in Cyberchase CTF

Schneider Electric, India

2021/07/12

- Secured 9th position in final round where final year students from IITs, NITs, IIITs, few other colleges and professionals with 1-4 years of experience participated across India.

ChairPerson Award in ISFCR Hackathon CTF

PESU Centre for Information Security, Forensics and Cyber Resilience

2021/01/16

- Secured 14th position in the All India Hackathon.
- Rewarded Rs.1000 Cash Prize.

Winner in AM-COM CTF

Amrita Tifac Core

2020/09/27

- Secured 1st position in the CTF organized by Amrita Tifac-Core in collaboration with CompTIA.
- CTF was conducted among students of all Amrita Campuses.
- Awarded CompTIA Security+ Instructor Led Course Voucher and Amazon gift card of worth Rs.2000.

Top 10 in Arab Cyber Security War Games

Arab Security Conference and Cyberwar Games

2020/08/15

- Secured 10th position globally where around 600+ teams participated.

Runner Up in Inter-Campus Chess Tournament

Amrita Vishwa Vidyapeetham

2019/08/25

- Inter-Campus Chess Tournament is the annual event conducted among Amrita Campuses where chess teams from respective campuses compete with each other.

Projects

ZCrypt - Basic Decryption Tool

2020/07 – present

- Developed an open source decryption tool for all offensive cryptography enthusiasts and CTFers.
- Covered most of the popular RSA attacks, XOR attacks & implemented them in python.
- Currently working on its GUI.

Secure College Network

2021/05 – 2021/06

- Designed a secure network for Amrita University Bangalore Campus by using Cisco PacketTracer.
- Security features include port security, passwords for each Access Point, CO level detector.

Organizations

IEEE Communications Society

Joint Secretary

2019/07 – 2020/09 | Bangalore, India

- Organized several events, talks, primarily focussed on Electronics.

Internshala

Campus Ambassador

2018/09 – 2018/12 | Bangalore, India

- Has been part of Internshala Student Program 11 and hosted an Internshala seminar on the topic "How to land in your dream internship through Internshala".
- Actively participated in social media marketing of Internshala during the period.

Courses

Startup India Learning Program

Invest India

2018/12

- Learned how to assess an idea, pitch an idea, the legal foundation of a firm, financial basics, and validation.

Basic Cryptography and Programming with Crypto API

Coursera

2020/05

- Learned asymmetric and symmetric cryptography techniques, also learned how to develop secure programs using crypto API

Languages

- Telugu
- English
- Hindi