

Manish Naik

Project Engineer

To enhance my professional skills, capabilities and knowledge in an organization which recognizes the value of hard work and trusts me with responsibilities and challenges.

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WORK EXPERIENCE

Project Engineer CDAC Hyderabad

04/2022 - Present

Hyderabad

Achievements/Tasks

- Binary exploitation on Windows and Linux platform with assembly code level debugging.
- Conducted in-depth reverse engineering of applications, native libraries, and system binaries using tools such as IDA Pro and Ghidra to uncover malicious behavior and security vulnerabilities.
- Performed basic static and dynamic analysis to identify suspicious behaviors and potential vulnerabilities in software. Used various build systems and IDE such as Eclipse IDE, Visual studio etc.
- Hands-on experience with embedded security system development. Knowledge of version control tools like Git. Experience in Web Security. Experience in SAST/DAST.
- Proficient in C with deep understanding of memory management and optimization.
- Debugging, fuzzing and exploitation of windows applications and browsers. UART/I2C/SPI Exploitation Mechanism.
- Experience in using various debugging tools like J-Link.
- Performed extensive reverse engineering and detailed malware analysis, successfully identifying and mitigating potential security threats. Conducted binary exploitation on Windows and Linux platforms, utilizing assembly code-level debugging. Networking (TCP/IP, DNS, DHCP).
- SSL/TLS, firewalls, intrusion detection/prevention. Working on intel x86 architecture assembly. Worked on Raspberry Pi. Networking (TCP/IP, DNS, DHCP). Proficient in C, DSA, Python, Git.
- Container-Docker, Secure CI/CD. Experience in using Security based tools Ghidra, IDA pro, Wireshark, Code Sonar, Regshot, Bintext, Burpsuite, Wireshark, Procmon, and Sysinternals Suite.

EDUCATION

Post Graduate Diploma- DASSD (Diploma in Advance Secure Software Development), CDAC Hyderabad

09/2021 - 04/2022

Hyderabad, Telangana

Courses

- C programming
- Operating system
- DSA
- Linux System Programming

Undergraduate Degree 2015-2019 (CSE) Anjuman College of Engineering and Tech, Nagpur

06/2015 - 06/2019

Nagpur, Maharashtra

Courses

- CGPA 8.64

SKILLS

Git

Docker

Debugging

Linux System Programming

MitreAttack

Fuzzing and Exploitation

IDA Pro

Ghidra

Communication Protocol - UART, SPI, I2C, JTAG
Basic Understanding.

Embedded Security

Reverse Engineering

Malware Analysis

Embedded Operating System

Data Structures

x86 assembly

C programming

Python

Bash Scripting

Web security

SAST/DAST

PERSONAL PROJECTS

Wordpress-Docker

- Deployed WordPress in Docker for easy, consistent, and efficient management. Containerizing WordPress and its database ensures portability, scalability, and resource optimization.

Smart mirror with Home automation system

- IOT applications embedded with smart mirroring technology to provide Automation as well as Home Security.

IOT based smart fencing

- Smart fencing with security system using IOT devices and applications.

LANGUAGES

English

Full Professional Proficiency

Hindi

Full Professional Proficiency

Marathi

Full Professional Proficiency

INTERESTS

Cricket

cooking