

D Nikhil Reddy

Web Dev / Binary Exploitation

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🖱 <https://n1ght-k1ng.github.io/> in <https://www.linkedin.com/in/dnikhil-reddy/>

🔗 <https://github.com/n1ght-k1ng>

Professional Experience

11/2020 – 04/2022
Amritapuri

CTF Player

Team Bi0s

- Contributed to the team's success in many well-renowned CTFs in the world.
- 7th in ISIDTU CTF
- 3rd in WPICTF 21
- 5th TamuCTF 21 ,
- On-Site CTF Qualifications for Securinets 21, VolgaCTF 21 and MidnightSunCTF 21

06/2021 – 12/2021
Amritapuri

CTF Challenge Author / Technical Content Writer

Traboda CyberLabs

- Authored various CTF Challenges for the Nationwide InCTF juniors and InCTF Nationals.
- Technical Content lead in Binary Exploitation module of Traboda Academy.
- Conducted video tutorial sessions for young hackers

06/2022 – present

Full Stack Web Developer

Freelance

- Learning Full Stack Web Development technologies like Next.js , React , Node.js , Django etc and building various projects.
- Frontend Web Design using Tailwind CSS and ANT Design.
- Learning Algorithms with Data Structures and improving my overall problem solving skills.
- NoSQL database integration.

2021 – 2022
Las Vegas, USA

Student Scholar

BlackHat USA Conference 2021 & 2022

- Was awarded with a Student Scholarship to attend the BlackHat USA Conference for two consecutive years.
- Had experience attending various talks and workshops in the event which indeed broadened my idea in the CyberSec domain.

Projects

10/2021 – 01/2022

CTF Challenges

GameofPWNs - A pwn challenge for InCTF juniors based on ret2libc concept

MIPSUnderstanding - A Binary Exploitation Ret2Shellcode challenge in MIPS architecture

BreakingBOF - A simple buffer memory overflow challenge for InCTF juniors.

CallmeCanary - A stack canary leak buffer overflow challenge.

10/2021 – 12/2021

Malloc Labs [🔗](#)

A dynamic storage allocator for C programs, i.e., my own version of the malloc, free and realloc routines

Implementing the whole malloc() with an accuracy of **92%** provided an immense base knowledge to start with Heap Memory Exploitation.

06/2022 – 08/2022

NightKing-CMS [🔗](#)

A MERN Stack Content Management System Web Application

- NextJS Web Application with a Node.js backend.
- User Interface built using ANT Design CSS framework.
- Authentication server built from scratch.
- Built API routes and middlewares for Category Management , User Authorisation, Post Visibility , Media management and Comments.
- Used MongoDB NoSQL database to store schema based collections of Posts , Users, Media , Categories , Websites.
- Search Engine Optimisation implemented using server-side rendered pages.
- Used Twilio Email Service for Forget / Reset Password feature.

05/2022

VitaraLearn

A Five page video DSA certification course page

- A Beginner project built using ReactJS.
- Vanilla CSS used for building the UI

10/2022 – 10/2022

Twitter Clone

A clone of the Twitter website.

- Twitter UI built using Tailwind CSS.
- Implemented Firebase authentication over the generic next-auth
- Cloud Firestore used as the database server.

Skills

Python

Data Structures and Algorithms & Exploit Developement

Exploit Development

CTF experience of Stack Memory and Heap Memory Exploitation concepts.

JavaScript

Experience in building Front-end and Back-end Web applications using JS and respective frameworks like Next.js, Node.js

Git

Version control of projects and CTF challenges handled by Github and Gitlab.

C Programming

Exploiting/Debugging bugs of complex C codes during CTF Competitions

HTML/CSS

Built robust UIs using CSS and CSS Frameworks

NoSQL

MongoDB and Firestore Database integration on Projects - NightKing-CMS and Twitter Clone respectively

Education

2006 – 2020

Jamshedpur, India

DBMS English School

- ICSE - 94.2%
- ISC - 80%

2020 – present

Amritapuri, India

Bachelors of Technology in Electrical and Computer Engineering

Amrita School of Engineering

CGPA - 9.08