

# Chandra Deep Kona

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## Education

### AMRITA SCHOOL OF ENGINEERING

B.TECH IN COMPUTER SCIENCE

📅 2018 - 2022 📍 Amritapuri, India

Graduated with a GPA of 6.95

### FIIT-JEE JUNIOR COLLEGE

BOARD OF INTERMEDIATE EDUCATION

📅 2016 - 2018 📍 Vijayawada, India

Percentage: 74%

### NALANDA VIDHYA NIKETAN

CENTRAL BOARD OF SECONDARY EDUCATION

📅 Mar 2016 📍 Vijayawada, India

GPA: 7.0

## Honors

### CRYPTOHACK

IN TOP 100 ON CRYPTOHACK

Currently ranked **6th Nationally** and in **Top 100** Internationally in

### CryptoHack

An ongoing contest with lots of challenges about Cryptography under the alias **pyr0**

### NSUCRYPTO OLYMPIAD

RANKED 10 IN RESEARCH ROUND

Secured **10th** place Internationally in Cryptography Olympiad conducted by Novosibirsk State University

**NSUCRYPTO'20**

## Skills

### TECHNICAL SKILLS

Cryptanalysis • Problem Solving

### PROGRAMMING

Python • SageMath • Solidity • Java • C

### MISCELLANEOUS

Shell •  $\text{\LaTeX}$  • Markdown

### FRAMEWORKS

Z3 SMT Solver • Pwntools • Brownie • Apeworx • Pycryptodome

### TOOLS

Git • Docker • Slither • Echidna • Manticore • GDB (peda)

### PLATFORMS

GNU/Linux • MacOS

## Links

🐙 GitHub [github.com/chandukona](https://github.com/chandukona)

in LinkedIn [chandukona](#)

🐦 Twitter [@chandu\\_kona](#)

✉ Gmail [chandukona12345@gmail.com](mailto:chandukona12345@gmail.com)

## Experience

### TEAM BIOS

CRYPTO TEAM LEAD, STUDENT RESEARCHER, AND MENTOR

📅 2018 - 2022

📍 Amritapuri, India

- **Ranked-1 CTF team** in India every year since 2016 and **globally ranked 21** among 24000 teams in 2019.
- Active CTF player with focus on **Offensive Cryptography** and **Cryptanalysis of standard cryptosystems**.
- Active in mentoring students on **Cryptography Exploitation techniques** and **Advanced Python**.
- Core organizer for numerous CTF's hosted by bi0s (including **Attack&Defence** and **Jeopardy** formats).

### TRABODA

CYBERSECURITY STARTUP

- Designed security challenges for Traboda, an ed-tech startup providing innovative & scalable solutions for tackling cybersecurity threats.
- Lead content creator - Produced content related to cybersecurity topics for traboda academy and bi0s wiki.

## Projects

### EXPLOIT IMPLEMENTATIONS

- CRYPTOGRAPHY

Implemented various attacks on cryptographic standards including **AES**, **DES**, **Textbook-RSA**, **Elliptic Curves**, **MAC**, **Discrete-log**, **Hashes** and **Diffie-Hellman** like **AES-Byte at a time**, **Padding oracle**, **Hash length extension** and **Pohlig-hellman on both Finite-Field DLP and ECDLP**.

### INCTF EVENTS

CORE ORGANIZING TEAM & CHALLENGE AUTHOR

- Organised **InCTFj** for high school students, **InCTF** for University students of India, and **InCTFi** Internationally.
- Authored, tested, and deployed 10 beginner, 5 medium & 12 advanced level crypto challenges.

## CTF Competitions

- FINALISTS IN **Securinets CTF FINALS** [ **4th** PLACE GLOBALLY ] - 2021
- RUNNERS UP IN **CTFZone** [ **5th** PLACE GLOBALLY ] - 2021
- WINNERS IN **DarkCTF** [ **1st** PLACE GLOBALLY ] - 2020
- RUNNERS UP IN **Byte Bandits CTF** [ **2nd** PLACE GLOBALLY ] - 2020
- RUNNERS UP IN **Crypto CTF** [ GLOBALLY **37** AND **1st** IN INDIA ] - 2019
- RUNNERS UP IN **ISITDTU CTF FINALS** [ **2nd** PLACE GLOBALLY ] - 2019

## WEB3 CTFs [completed]

- Ethernaut CTF [WRITEUPS]
- Capture The Ether CTF [WRITEUPS]
- Damn Vulnerable DeFi CTF [WRITEUPS]