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
76th Internationally in **CryptoHack**
An ongoing contest with lots of
challenges about Cryptography
a.k.a **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 • C • Solidity • Go

MISCELLANEOUS
Shell • LaTeX • Markdown

FRAMEWORKS
Z3 SMT Solver • Pwntools •
Pycryptodome

TOOLS
Git • Docker • GDB (peda)

PLATFORMS
GNU/Linux • MacOS

Links

🔗 GitHub github.com/chandukona
in Linkedin chandu-kona-394582153
🐦 Twitter @chandu_kona
G Gmail chandukona12345@gmail.com

Experience

TEAM BI0S
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.
- Worked on **Cryptographic encryption protocols** based on real-world usage and solved challenges based on them during **Capture The Flag competitions**.
- Conducted multiple **sessions** for freshmen year students in the university on **Python Programming** and **Cryptography**.
- **Organized multiple CTFs** (Jeopardy and Attack Defence) and Events.

Projects

XORT
Xor tool
Implemented Textual-UI based **Xor analysis tool** and can also be used for **string-key-based stream ciphers**.

IMPLEMENTATIONS
- Attacks
Implemented various attacks on cryptographic standards including **AES, DES, Textbook-RSA, Elliptic Curves, MAC, Discrete-log, Hashes** and **Diffie-Hellman**.

- Constructing Carmichael Numbers
Implemented the algorithm to construct Carmicheal numbers (pseudo primes) to **bypass the Miller-Rabin Primality Test**.

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.

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.

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