

# Deep Gopal Saha

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## EDUCATION

### Indian Institute of Technology, Patna

*M.Tech in Computer Science and Engineering*

Patna, India

Jul. 2025 – Jul. 2027

### Government College of Engineering and Leather Technology

*B.Tech in Computer Science and Engineering (CGPA: 9.19)*

Kolkata, India

Aug. 2021 – May 2025

## EXPERIENCE

### AI Test Harness Intern

*Capsule Labs*

- Built an innovative test harness for quantitative testing of AI solutions
- Delivered efficient, PEP-compliant Python code with detailed documentation
- Collaborated within a team environment, contributing to a positive and effective workflow

Apr. 2025 – June 2025

Kolkata, India

### Intern – Blog Writer

*Capsule Labs*

- Wrote blogs on modern web development
- enhanced understanding of full-stack technologies

Oct. 2022 – Dec. 2022

Kolkata, India

## PROJECTS

### Malware Reverse Shell and APK

🔗 malware

- Developed a malware program that establishes a reverse shell to my AWS-hosted server, enabling remote file access and transfer
- Created an Android APK capable of initiating a reverse shell on the target device

### Persistent Windows Keylogger

🔗 win\_keylogger

- Developed a persistent keylogger for Windows, capable of logging user keystrokes discreetly
- Implemented persistence by modifying Windows Registry keys to maintain execution across reboots

### Anonymous Real-Time Messaging App

🔗 msgAnon | 🌐 chatanon.onrender.com

- Built an anonymous 1-on-1 chat platform using **Rust**, **Axum**, **Socketoxide**, for secure, ephemeral messaging
- Enabled in-memory room-based communication without database storage, preserving user anonymity

## ACHIEVEMENTS

Reported critical vulnerability in govt. site via **NCIIPC RVDP** (acknowledged)

Secured **16<sup>th</sup>** out of 200 teams in **Zero Day CTF** (by Zero Logon)

Conducted campus seminar: “*The Hacker’s Guide*”

Secured **AIR 932 (99.45 percentile)** out of 1,70,000 candidates in **GATE 2025**

## POSITION OF RESPONSIBILITY

### Cybersecurity Lead – GDG (Google Developer Group)

*Kolkata, India*

2024 – 2025

- Led cybersecurity initiatives, hands-on workshops, and awareness sessions under GDG on campus
- Collaborated with tech communities to organize events and engage 100+ students in infosec practices

## TECHNICAL SKILLS

**Languages:** C/C++, Python, Rust, HTML/CSS

**Cybersecurity:** Penetration Testing, OWASP Top 10, Reverse Engineering, Bug Hunting

**Learning:** Data Structures & Algorithms (DSA), Full Stack Development using Django