

# Deep Gopal Saha

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## EDUCATION

### Indian Institute of Technology, Patna

Patna, India

M.Tech in Computer Science and Engineering

Jul. 2025 – Jul. 2027

### Government College of Engineering and Leather Technology

Kolkata, India

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

Aug. 2021 – May 2025

## EXPERIENCE

### Software Intern

Apr. 2025 – June 2025

Capsule Labs

Kolkata, India

- 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

### Intern

Oct. 2022 – Dec. 2022

Capsule Labs

Kolkata, India

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

## PROJECTS

### Malware Reverse Shell and APK



- Developed a malware that establishes connection to my remote server
- Created an Android APK capable of initiating a reverse shell on the target device

### Persistent Windows 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



- 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, Full Stack Development