

# Suvadip Pramanik

West Bengal, India

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## EDUCATION

### Vellore Institute of Technology

October 2022 – 2026

B.Tech in Computer Science and Engineering (Cyber Security) — CGPA: 7.73

- Completed key projects in cyber security using Python, HTML, CSS, JavaScript.
- Active participant in hackathons and technical contests aligned to security and programming.

## EXPERIENCE

### Edge Impulse

December 2025

Winner

- Won the Special Mentions Award at Edge AI contest by Edge Impulse Hackathon on the Hackerearth platform.
- Developed a Lightweight Network Intrusion Detection System using Neural Networks classifier trained on the Edge Impulse platform using single-board computer for hardware interfacing.

### picoCTF

March 2025

Participant

- Ranked in top 20% in the 2025 challenge. Key exploits included web exploitation, general skills, forensics, cryptography.
- Implemented Python, bash, HTML, SQL, C++, nmap, wireshark and additional relevant tools in Linux to solve challenges.

## PROJECTS

### Network Scanner | Python, Raspberry Pi

July 2025

- Built a WiFi scanner using Python to program the Raspberry Pi and utilize the station mode to capture data.
- Implemented SSID and RSSI value capture of local networks with display visualization and simulated passive Footprinting.

### Intrusion Detection System | Python, Random Forest, Raspberry Pi

October 2025 - Present

- A simple network intrusion detection system running on a Raspberry Pi development board. Features two detection approaches: a rule-based Python script and a machine learning Random Forest classifier

### WiFi Pineapple | Python, HTML, PHP, Raspberry Pi

September 2025

- Developed a WiFi Pineapple featuring an Evil Portal attack vector. Configured a Rogue AP on Raspberry Pi to redirect traffic to a phishing site hosted on another Raspberry Pi.

### pico CTF Solutions & Writeups | Cryptography, Forensics, Web Exploitation

2023 – 2025

- Authored 100+ technical writeups across cryptography, reverse engineering, and web exploitation.
- The repository serves as a resource for beginners and ranks among top community resources.

## TECHNICAL SKILLS

**Skills:** Python, Java, Bash, MySQL, Ethical Hacking and Penetration testing.

**Tools & Frameworks:** Git, Burp Suite Pro, Wireshark, Nmap, Metasploit, NIST CSF, ISO 27001

**Operating Systems:** Linux (Kali, Ubuntu), Windows

## CERTIFICATIONS

### Certified Ethical Hacker v13 AI (EC-Council)

Expected 2025

*Skills: Footprinting, enumeration, vulnerability analysis, and exploit development.*

### Hands-on Penetration Testing on Termux (EC-Council)

January 2025

### Introduction to Networking and Cloud Computing (Coursera)

December 2023

### Cyber Security Threat Vectors and Mitigation (Coursera)

April 2024

## ACHIEVEMENTS

- picoCTF 2025:** Ranked in the top 20% globally in the pico CTF 2025 competition.
- Collaboration:** Designing Team Head, Vitronix Club, VIT Bhopal (2024).