

Gourav Raj

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Education

NIMS University

Master of Computer Applications

Oct 2024 – July 2026

Jaipur

Ambalika Institute of Management Technology

Bachelor of Computer Application

Sept 2021 – June 2024

Lucknow

Certifications-

- CSCU v2, **EC-Council (ID: ECC85375968208)**, Jan 2018
- Ethical Hacking Expert, **Star Certification (ID: STR18EHE00028621)**, Jul 2018
- CompTIA ITF+, **CompTIA (ID: WCBDF07G5GR4Q6S9)**, Apr 2019
- Cisco Cybersecurity (3): **Ethical Hacker, Networking Basics, Intro to Cybersecurity, 2023**
- Digital Forensics, **SSC NASSCOM FutureSkills Prime (ID: FSP/2023/7/4069389)**, Jul 2023
- Ethical Hacking Essentials (EHE), **EC-Council (ID: 234470)**, 2023
- Automate Cybersecurity Tasks with Python, **Google/Coursera (ID: HFT78DRDC497)**, Dec 2023
- API Security Fundamentals, **APIsec University, Apr 2024**

Project

Phishield – Phishing Detection System (Flask, ML, Scikit-Learn) | [Phishield – Phishing Detection System](#)

- Built a real-time phishing URL detection system using Flask and machine learning (Random Forest / Logistic Regression). Engineered lexical and suspicious-pattern URL features to generate accurate phishing predictions.
- Developed a REST API (`/check-url`) for real-time classification and integrated a clean, lightweight frontend.
- Trained and deployed the model using Scikit-Learn, achieving reliable performance with a serialized. pkl model.

Steganography Tool – Hide Messages in Images (Python, Tkinter, Pillow) | [Steganography Tool - Hide Messages in Images](#)

- Built a GUI-based steganography application using Python, Tkinter, and Pillow to hide and extract secret messages from PNG/BMP images.
- Implemented LSB-based encoding/decoding with support for saving stego-images.
- Designed an intuitive interface enabling non-technical users to embed and reveal messages easily.
- Planned enhancements include password protection, improved LSB logic, and audio steganography support.

Basic Keylogger – Educational Cybersecurity Tool (Python, pynput) | [Basic Keylogger](#)

- Developed a lightweight Python-based keylogger to study keystroke-capture techniques used in real-world attacks.
- Implemented timestamped logging for input analysis, with support for standard and special keys.
- Designed for controlled, ethical environments to support research on detection, behaviour analysis, and defensive countermeasures.
- Explored input device hooking via the `pynput` library to understand offensive tactics and build defensive tools.

Technical Skills

Languages: Java, Python, JavaScript, HTML/CSS, MongoDB, MySQL

Tools: Nmap, Wireshark, Metasploit, Burp suite, VS Code, IntelliJ, NetBeans, Google Cloud Platform, Netlify, Vercel

Technologies/Frameworks: Nodejs, DSA, Git and GitHub, WordPress, React

Achievements

- Participator of **Hacktoberfest** open-source program and **Try Hack me** Event.
- Many Swags form **Google Cloud Arcade**, **Cloud bootcamp** and **Devfest**.