

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

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