

Satyansh Raj

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Projects

Cyber Forensics and Crime Investigator / Autopsy, EaseUs, FTK Imager

Oct 2024 - Dec 2024

- Conducted forensic investigation on a suspect's system to recover hidden data.
- Performed low-level data recovery using Autopsy and FTK Imager to extract deleted files and encrypted documents.
- Analyzed browser history, registry artifacts, and system logs to trace suspect's online activity and hidden communications.
- Decrypted an encrypted meeting location file using Hashcat.

WIFI-Deauther / Microcontroller Design, Wi-Fi, Network Security, Embedded Systems

Feb 2024 - May 2024

- Designed and developed a custom microcontroller to control a Wi-Fi deauther device used for network security testing and educational purposes.
- Programmed the microcontroller using C/C++ to facilitate sending de-authentication packets that disrupt Wi-Fi connections for security analysis.
- Integrated various hardware components including the custom-designed microcontroller, Wi-Fi module, antenna, and power supply to create a compact, portable device.
- Enabled control through a terminal or web interface, allowing users to configure settings and execute network testing.
- Focused on network security, understanding Wi-Fi vulnerabilities, and raising cybersecurity awareness.

Laptop Repairing System / C, Problem Solving, Algorithm Design

Jan 2023 - March 2023

- Developed a diagnostic tool in C that identifies potential laptop hardware and software issues based on user-selected options.
- Implemented a decision-tree logic to provide users with tailored solutions based on their selected options.
- Allowed troubleshooting of various problems, including hardware malfunctions, operating system errors, and connectivity issues.
- Focused on performance optimization to ensure quick identification of problems and efficient user interaction.

Phone-Repository / Python3, Terminal based User interface, OOP

Oct 2022 - Dec 2022

- Developed a phone contact management system in Python, allowing users to add, delete, view, and update contacts.
- Implemented functions to store, retrieve, and modify contact information in an efficient way.
- Designed the system to run in a terminal-based environment, improving user experience through a simple text interface.
- Applied object-oriented programming (OOP) principles to create reusable and maintainable code.

Certificates

QuickHeal Certified Digital Forensic Investigator

January 2025

Issued by: QuickHeal Academy

Certificate ID: LPU-0000-287501

CompTIA Network+ N10-008

December 2024

Issued by: CompTIA

Expires on: Dec 2027

Certificate ID: XV2XQLXQTE111TS9

Technical Skills

Languages C++, C, Python, Solidity, Bash

Technologies/Frameworks: Ubuntu, Kali Linux, Autopsy, Volatility, FTK Imager

Skills: Network Forensics, Mac Forensics, Email Forensics and Computer Forensics, System Administration

Education

Lovely Professional University

2022 – 2026

Computer Science and Engineering — CGPA: 6.10

Jalandhar, Punjab

MB DAV Public School

2019 – 2020

12th with Science — Percentage: 71.2%

Lohardaga, Jharkhand

MB DAV Public School

2017 – 2018

10th with Science — Percentage: 85%

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