

Satyansh Raj

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SKILLS

- **Languages:** C++, C, Python, Solidity, Bash, JavaScript
- **Frameworks:** HTML and CSS,
- **Penetration:** Mobile Pentest, Incident Response, Cryptography, Penetration Testing
- **Tools/Platforms:** Ubuntu, Kali Linux, Autopsy, Volatility, FTK Imager, Wireshark, Burp Suite
- **Soft Skills:** Problem-Solving Skills, Team Player, Project Management, Adaptability

PROJECTS

- **Simple Wallet & Formal Verification** Apr 2025
Built a basic Ethereum wallet in Solidity for deposits and withdrawals.
Ensured secure and transparent transactions through smart contract design.
Used formal verification tools to prove correctness of key functions.
Tech: Solidity, Dafny, EVM
- **Cyber Forensics and Crime Investigator** 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.
Tech: Autopsy, EaseUs, FTK Imager
- **Wi-Fi-Deauther** Feb 2024 - May 2024
Designed a custom microcontroller for a Wi-Fi deauther device used in network security testing.
Programmed it in C/C++ to send de-authentication packets for Wi-Fi disruption analysis.
Integrated components like Wi-Fi module, antenna, and power supply into a compact device.
Enabled control via terminal and web interface for configuration and testing.
Tech: Microcontroller Design, Network Security, Wi-Fi
- **Laptop Repair System** 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.
Tech: C, Problem Solving, Algorithm Design
- **Educational Website** Nov 2022 - Dec 2022
Developed a responsive educational website that allows users to log in, select a teacher, and enroll in different courses.
Implemented client-side form validation, dynamic course selection, and interactive user flow using JavaScript.
Focused on user-centric design and efficient UI flow to enhance the overall user experience on the platform.
Tech: HTML5, JavaScript, CSS
- **Phone Repository** 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.
Applied object-oriented programming (OOP) principles to create reusable and maintainable code.
Tech: Python3, OOP

CERTIFICATES

- QuickHeal Certified Digital Forensic Investigator. Jan 2025
- CompTIA Network+ N10-008 Dec 2024
- Programming Using C++ Jul 2024

ACHIEVEMENTS & CTF'S

- **Secured Top 15 rank in CYCTF:** Apr 2025
Organized by QuickHeal
- **Secured Top 30 rank in Winja CTF** Mar 2025
Worldwide event organized by Nullcon
- **Secured Top5 in Chakravyuh CTF** Mar 2025
For good academic performance and extra-curricular activities at university.

- **Participated in Hackfinitiy CTF** Mar 2025
Worldwide Event organized by TryHackMe
- **Participated in OperationBlackout CTF** Mar 2025
Extra-curricular activities at university
- **Received 1Lakh Rupees as Seed Money** Jan 2024
For Innovation Purpose
- **Played District Level in Chess** Oct 2017
Hosted by SGFI

EDUCATION

- **Lovely Professional University** Punjab, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 6.28 Since Aug 2022
- **M.B. D.A.V. Public School** Lohardaga, Jharkhand
Intermediate; Percentage: 71.2% Apr 2018 - Mar 2020
- **M.B. D.A.V. Public School** Lohardaga, Jharkhand
Matriculation; Percentage: 85% Apr 2016 - Mar 2018