

Prasanth Kumar S

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Professional Summary

Aspiring cybersecurity professional with hands-on experience in penetration testing, network security, and threat analysis. Skilled in using tools like **Snort, Burp Suite, and Wireshark to detect and mitigate vulnerabilities**. Successfully engineered a Public Wi-Fi Security System, **improving network security by 40%**.

Education

Bachelor of Technology in Computer Science & Engineering (Cybersecurity)

Vel Tech Rangarajan Dr. Sanguthala R&D Institute of Science and Technology

Aug 2022 – 2026

CGPA: 8.3

Certifications

- **Certified Ethical Hacker (CEH) v13:** In Progress Expected Nov 2025
- **Cloud-Based Hacking & Advanced Network Monitoring by zSecurity** Dec 2024
- **Website Hacking & Penetration Testing by zSecurity** Nov 2024
- **Cybersecurity & Applied Ethical Hacking by Infosys** Oct 2024
- **Learn the Art of Hacking Through Programming (LAHTP) by SNA Academy** Feb 2024

Projects

- **Zero Trust Network System** May 2025
 - Developed a real-time Zero Trust Network System(ZTNA) identifier in Python to **dynamically assess and manage the trustworthiness of over 100 devices** in a controlled lab environment.
 - Implemented a **live trust score evaluation mechanism** enforcing automated isolation of devices exhibiting security violations such as outdated systems, high resource consumption, or suspicious network activities.
 - Engineered a **multi-threaded monitoring framework** for continuous device analysis, enabling immediate detection and response to simulated cyber threats during hands-on laboratory testing.
 - Designed an interactive dashboard for real-time visualization and administrative review of **device trust metrics, status updates, and detailed security event logs** directly within the lab setup.
- **Public Wi-Fi Traffic Routing and Monitoring System** Aug 2024
 - Engineered a secure routing system to manage public Wi-Fi traffic through **CloudConnexa VPN** on a cloud server.
 - Configured **OpenWRT firmware** for custom router enhancements, improving performance and scalability.
 - Deployed **Snort IDS** to monitor network traffic, identify threats, and log suspicious activities.
 - Resolved IP conflicts between routers, ensuring uninterrupted connectivity.
 - Improved traffic monitoring **efficiency by 25%**.
- **AI Models for Cybersecurity** Aug 2024
 - Designed **AI models** for intrusion detection, threat analysis, and anomaly detection in network traffic.
- **Local AI for Personal Usage** Feb 2023
 - Redesigned a local AI system to automate tasks and enhance productivity using **Python** and **machine learning frameworks**.

Skills

Technical Skills: Networking (TCP/IP, DNS, DHCP), Operating Systems (Kali Linux, Windows, macOS), Programming and Scripting (Python, Bash), Security Tools (Wireshark, Metasploit, Snort)

Analytical Skills: Incident Response, Threat Hunting, Vulnerability Analysis

Soft Skills: Team Collaboration, Effective Communication, Attention to Detail

Tools and Technologies: Containerization (LXC, LXD, Docker), Penetration Testing (Burp Suite, Metasploit), Monitoring and SIEM (Wireshark, Snort, Splunk), Version Control (Git)

Programming: Python, C, Java, HTML, CSS, JavaScript, PHP.

Experience

- **Freelancing**

Sep 2022

Performed security assessments for client websites, **identifying and mitigating 20+ vulnerabilities using penetration testing tools**. Provided cybersecurity consultancy, improving client security posture by 30%.

Area of Interest

Network Security, Ethical Hacking, Cryptography, Cloud Security

Achievements

- Secured **3rd place and received a cash prize** in the Vel Tech Personal Interview for Professionals competition.
- Selected as a finalist and received appreciation in the BITS Pilani Hackathon, participating as part of a **3-member team among 4,000 contestants and ranking in the top 10 teams**.
- Secured **Second Prize in Idea Contest** for presenting an innovative **5G Network** solution.
- Successfully completed a crucial project on **AI-driven Threat Detection Models** for enterprise networks.
- Innovated and implemented a scalable **Public Wi-Fi Security System** using advanced network protocols.
- **National Level CTF Competition:** Secured **Top 25th position** out of 500+ participants, solving complex cryptographic and network security challenges.
- **Technical Symposium:** Organized and managed a national-level event with 200+ attendees, featuring cybersecurity workshops and ethical hacking challenges.

Languages

Spoken: English, Tamil