Srachet Rai

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Portfolio - www.srachetrai.dev : GitHub - github.com/Cryio : Linkdin - linkedin.com/in/srachetrai

About

Aspiring cyber security professional with a strong foundation in vulnerability and security assessment, networking, web development, and machine learning. Passionate about innovation, digital security, and problem-solving in the evolving tech landscape.

Skills

Cybersecurity: Vulnerability Assessment & Penetration Testing, Networking Devices and Configuration, Information Security, Wazuh, MISP, DFIR-IRIS, Nessus, OpenVAS, BurpSuite, Nikto, Ghidra, Cuckoo, Caldera
Programming Languages & Development: Python, Java, Flutter, Node.js, React.
Version Control: Git & GitHub
Operating Systems & Virtualization: Linux, VirtualBox, QEMU, Docker, Podman, Embedded systems
Soft Skills: Adaptability, Quick Learning, Leadership, Research

Projects

TinyLinux (link)

• A lightweight **Operating System** built with the **Linux kernel**, **custom shell (C programming)**, and efficient **system calls (assembly)**. (The **kernel being <1mb**)
• It provides a minimal OS environment for learning low-level system programming and OS development.
• Primarily for **embedded systems** or performance-critical applications requiring a **small OS footprint**.

Wifi-CSI Based Activity Recognition (Research Paper Accepted - Comsnets 2026) (link)

• Use of **ESP32** to collect WiFi CSI to recognize daily human activities for camera-free activity monitoring.
• Used **Python** to convert CSI and audio into **heatmaps** and **mel-spectrograms**.
• Implemented **WGANs** to recognize activities with CSI for smart home, health, and security applications.

Vulnerability Assessment in Docker and Podman (R&D Project) (link)

• Setting up containers in **Docker** and **Podman.**
• Implementing **PoC exploits** in **C** and **Python** to demonstrate real-world security risks.
• Constructing intentionally **vulnerable containers** to analyze **attack vectors** and identifying security measures to mitigate potential threats.

Experience

CyberSecurity Intern   [Gurugram, Haryana]
Fluidech IT Services   [July 2025 - Present]
• Assisted in monitoring **security alerts** and **logs** from endpoints to identify suspicious activities.
• Performed **VAPT** activities using industry-standard tools and manual testing.
• Gained hands-on exposure to **SIEM** dashboards and **Case Management** solutions.
• Integrated external **threat intelligence feeds** into security workflows to enhance detection and prioritization.

Junior Web Designer   [Kalyan, Maharashtra]
Maa Karmaa Global Engineering LLP   [Apr 2023 - Sep 2023]
• Designed and developed web pages using **HTML/CSS**, improving **UI/UX** consistency.
• Created engaging graphic designs to enhance visual communication.
• Collaborated with cross-functional teams to implement responsive design solutions.

English Language Instructor   [Neemrana, Rajasthan]
NIIT Foundation   [Oct 2022 - Dec 2022]
• Conducted English language training for job readiness programs at the Career Development Center.
• Completed dedicated volunteering tenure over a 6-week period.
• Contributed to the Foundation's mission of empowering students through language skills.

Education

NIIT University   [Neemrana, Rajasthan]
Bachelor of Technology in Computer Science (CGPA - 8.06)   [2022 - 2026]

Certifications

Certified Cybersecurity Practitioner – **Palo Alto Networks ([Link](#))**
Comprehensive cybersecurity practitioner certification covering cloud security, endpoint security, network security fundamentals, and security operations.

ICS 300 – **Cybersecurity and Infrastructure Security Agency (CISA) ([Link](#))**
Advanced Industrial Control Systems security training focusing on comprehensive ICS security practices.

Multi-Cloud Red Labs (MCRTA) – **CyberWarFare Labs ([Link](#))**
Cybersecurity fundamentals, threat detection, network vulnerabilities, privacy and data confidentiality, cyber best practices

Introduction to Cybersecurity – **Cisco ([Link](#))**
Cybersecurity fundamentals, threat detection, network vulnerabilities, privacy and data confidentiality, cyber best practices

Networking Basics – **Cisco ([Link](#))**, **Networking Devices and Initial Configuration – Cisco ([Link](#))**
Network devices and protocols, data flow analysis, device configuration, network troubleshooting, IP addressing schemes, Cisco device configuration, connectivity testing, Cisco Packet Tracer proficiency

Google Cloud Platform (GCP) & Generative AI – Google ([Link](#) [GCP](#) & [AI](#))
Generative AI concepts, applications, differences from traditional machine learning, Google tools for Generative AI app development

Other Certifications - **Ethical Hacking** (Udemy), **Machine Learning** (IIT Bombay), **Blender** (Udemy)

Achievements

• Presented a 20-min research talk, as the **first author** of a research paper, at **ComsNets 2026.**
• Organized the Capture the Flag challenge **siNUsoidCTF** with +100 active participants.
• Got selected for the Google Developers Solution Challenge 2024.
• Completed dedicated volunteering tenure over a 6-week period.
• Contributed to the Foundation's mission of empowering students through language skills.

Additional

Language Skills: English , Hindi
Volunteering: Design(siNUsoid), Design & Post-production(TEDxNIITUniversity), Instructor(NIIT Foundation)
Interests/Hobbies: 2D & 3D Digital art, Game Dev