

# Srachet Rai

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Portfolio - [www.srachetrai.dev](http://www.srachetrai.dev) : GitHub - [github.com/Cryio](https://github.com/Cryio) : LinkedIn - [linkedin.com/in/srachetrai](https://linkedin.com/in/srachetrai)

## About

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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

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**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

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### 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

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### CyberSecurity Intern

Fluidech IT Services

[Gurugram, Haryana]

[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

Maa Karmaa Global Engineering LLP

[Kalyan, Maharashtra]

[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

NIIT Foundation

[Neemrana, Rajasthan]

[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

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## NIIT University

Bachelor of Technology in Computer Science (CGPA - 8.06)

[Neemrana, Rajasthan]

[2022 - 2026]

# Certifications

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## 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

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- Presenting a 20-min research talk, as the first author, 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

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**Language Skills:** English , Hindi

**Volunteering:** Design(siNUsoid), Design & Post-production(TEDxNIITUniversity), Instructor(NIIT Foundation)

**Interests/Hobbies:** 2D & 3D Digital art, Game Dev