Srachet Rai

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About

Aspiring cybersecurity professional with a strong foundation in ethical hacking, web development, and machine learning. Passionate about innovation, digital security, and problem-solving in the evolving tech landscape.

Education

NIIT University   [Neemrana, Rajasthan]
Bachelor of Technology in Computer Science   [2022 - 2026]
CGPA: 7.81

Certifications

Google Cloud Platform (GCP) & Generative AI – **Google**
Ethical Hacking – **Udemy**
Machine Learning – **IIT Bombay**
Blender – **Udemy**

Projects

Wifi-CSI Based Activity Recognition (Research Project)   [Apr 2024 - Present]
• 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 **GANs** to recognize activities with CSI for smart home, health, and security applications.

TinyLinux   [Dec 2024 - Feb 2025]
• 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**.

Skills

Programming Languages & Development: Python, Java, Flutter, HTML, CSS, JavaScript
Version Control: Git & GitHub
Cybersecurity: Vulnerability Assessment & Penetration Testing, Ethical Hacking, Security Information & Event Management
Operating Systems & Virtualization: Linux, VirtualBox, QEMU, Docker, Embedded systems & connected devices
Graphic Design: Adobe Suite, Figma, Blender 3D
Soft Skills: Adaptability, Quick Learning, Leadership, Research

Experience

Design Core   [Neemrana, Rajasthan]
TEDxNIITUniversity   [Oct 2023 - May 2024]
• Assisted in organizing and managing TEDx talks, contributing to an engaging experience for students.
• Designed promotional materials and event visuals, enhancing audience engagement.
• Captured and edited event footage, ensuring high-quality post-production output.

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.

Additional

Language Skills: English , Hindi
Volunteering: Design(siNUsoid), Design & Post-production(TEDxNIITUniversity), Instructor(NIIT Foundation)
Socials: Portfolio - www.srachetrai.tech : GitHub - github.com/Cryio : Linkdin - linkedin.com/in/srachetrai
Interests/Hobbies: 2D & 3D Digital art, Baking, Gaming