

Ramesh Adhikari

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Experience

Technical Assistant / Indian Institute of Technology, Bombay

01st January 2022 – Present

[Web Developer, Internet of Things (IoT), Embedded Systems, Microcontrollers, C++]

- Project in the Machine Intelligence group at the National Centre for Aerospace Innovation and Research at IIT Bombay.
- Responsibilities: Design of embedded systems and PCBs, setting up communication between multiple machines (ESP32, Arduino, RFID, Sensors) and cloud servers using various protocols (UART, I2C, SPI, TCP/IP, HTTP, and MQTT)

Intern / Indian Institute of Technology, Bombay

04th October 2022 – 30 December 2022

[Web Developer, Internet of Things (IoT), Embedded Systems, Microcontrollers, C++]

- Developed a Mac Sniffer using ESP32, which allows detecting MAC addresses of nearby devices, even if they are not connected to a Wi-Fi network.
- Designed and developed a Bluetooth Sniffer using UART communication.

Intern / Withstand Fitness

August 2021 – February 2021 [PHP, SQL, HTML, CSS, JS]

- Developed and launched the company's website from scratch, handling both front-end and back-end tasks.
- Utilized HTML, CSS, and JavaScript to create an attractive and user-friendly website design.
- Configured the website with the hosting provider and ensured that it was fully functional.
- Managed client data through PHP and created automated forms to reduce workloads.
- Led digital marketing efforts, optimizing ads with trending keywords to generate maximum leads.
- Collaborated with the team to create and execute successful digital marketing campaigns.
- Experience working with libraries such as Three.js

Instructor / Udemy

December 2021 – [Python, Ethical Hacking]

- Created and taught a 15-hour Ethical Hacking course on Udemy, delivering engaging lectures and providing students with valuable skills and knowledge.
- In the same course, I have also taught how to create a hacking tool with Python 3 using libraries like Scapy.
- Course was well-received, attracting over 150 students and earning a rating of 4.3 out of 5. Launched and managed the "Extreme Hacking" YouTube channel, which focuses on Ethical Hacking and Cybersecurity topics. Produced and edited high-quality videos.

Education

Tolani College Of Commerce, Mumbai

Bachelor Of Commerce (specialization IT)

August 2018 – June 2021

CGPA: 6.3/10

Skills

- Strong foundation in Arduino Uno, Raspberry Pi
- Proficient in C, PHP, HTML, CSS, JAVA-SCRIPT, PYTHON.
- Familiar with measurement tools – Multimeters etc.
- Proficient in MS Office Tools and maintaining technical documentation.
- Strong verbal and written communication and interpersonal skills; Cooperative and collaborative mindset

Activities

Social Activity / Hospital

August 2021 – October 2021 [Technical Support, Data Entry]

- Worked as a COVID warrior at an IIT hospital during my final year.
- Conducted data entry work to maintain accurate records of patient information and vaccination status
- Collaborated effectively with hospital staff and other COVID warriors to ensure a safe and efficient vaccination process.

Project / MAC SNIFFER

August 2018 – November 2018

- Developed a Mac Sniffer using ESP32, which allows detecting MAC addresses of nearby devices, even if they are not connected to a Wi-Fi network.
- Technology Used:-C, UART-COMMUNICATION.

Technotex / Envisioning Indian Technical Textiles by 2047

February 2023

- Piyush Goyal, the Minister of Commerce, gave a speech highlighting the potential for growth in the technical textiles sector in India.
- Based on the Minister's speech and current trends, it is clear that the technical textiles sector in India is poised for significant growth in the coming years.

Volunteer / Family Service Center, Colaba, Mumbai,

October 2021 (3 Months) [Website Development]

- Worked as a Volunteer for their Website project.
- Offered my services free of cost to the organization, demonstrating my commitment to social responsibility.
- Created an attractive and user-friendly design that met the needs of the organization and its clients.
- Configured the website with the hosting provider and ensured that it was fully functional.
- The website is currently awaiting launch by the organization, but a preview is available at <https://www.exthack.com/fsc>

Extra-Curricular

- Core Member of Alumni Team of Tolani College Of Commerce.
- I have consistently participated in TryHackMe's Capture The Flag events and challenges, achieving a commendable rank of 10,000. Through my participation in these events, I have been able to develop and enhance my skills in various areas of cybersecurity, including network security, web application security, cryptography, and reverse engineering
- Kho-Kho National Player(Mumbai Region -2016).