

Karan Sharma

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EDUCATION

Chandigarh University

Punjab, India

**Bachelor of Technology (B.Tech) in Information
Technology**

Jun 2024

WORK EXPERIENCE

National Ilan University (on-site)

Yilan ,Taiwan

IOT Research Intern

July 2023 - Jan 2024

- Conducted pioneering research on smart electricity meter implementation in Taiwan, integrating Blockchain, ESP-IDF, App dev, Edge Computing, and Raspberry Pi technologies.
- Performed simulations and developed a real life robot using ROS2 and implemented SLAM for warehouse usages.
- Devised ESP-IDF provisioning techniques for commercial IoT devices and established server connectivity through socket implementation.

Cyphinix (online)

Pune, India

Security Engineer intern

Jan 2023 - Apr 2023

- Conducted thorough vulnerability assessments and pen testing for clients, identifying and assigning CVE numbers to 10+ vulnerabilities with a 99% accuracy rate.
- Developed and implemented mitigation strategies for identified vulnerabilities, resulting in a 30% reduction in overall risk for clients.

PROJECT EXPERIENCE

NASA CANSAT 2023

Sep 2022 - Jan 2023

- Designed and implemented a telemetry analysis software using Python that enabled real-time monitoring of flight metrics, reducing response time to anomalies by 50% during testing phases.
- Developed and executed efficient communication protocols to ensure seamless data transmission between the interplanetary probe and the ground control system, resulting in a 100% success rate for critical mission commands.

Computer Vision Model

Nov 2022 - Dec 2022

- Developed and deployed a gesture recognition system using Python with open CV, achieving an accuracy rate of 90% on average across multiple gestures.
- Designed and implemented an Face detection model using Python packages that can detect faces and itegrated it with ESP8266 and Servo motors in Pan and Tilt setup with up to 95% accuracy.

AWS VPN and Website

Jul 2022 - Aug 2022

- Utilized Amazon free tier to launch an EC2 virtual machine OpenVPN on it, reducing hosting costs by over \$100 per month while maintaining high security standards.
- Set up an AWS VPN server to connect with local routers, optimizing network speed by reducing latency by 30% and increasing bandwidth by 50%.

- Configured an AWS S3 bucket and hosted a static website, resulting in a 99.9% up-time.

SKILLS

Python	C/C++	Git and Github	Linux
Open-CV	ESP-IDF	Arduino	Raspberry Pi
Cyber Security	Docker	AWS	Networking

LEADERSHIP EXPERIENCE

Chandigarh University

Class Representative **Jan 2021 - Aug 2023**

- Coordinated and facilitated regular meetings with university officials to discuss and address student concerns, resulting in a 20% increase in student satisfaction ratings.
 - Advocated for improved resources and support for students with disabilities, leading to the implementation of a new accommodation policy which increased accessibility by 50%.
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