Tanishq Kanare

kanaretanishq312@gmail.com | +91 6350239843 | www.linkedin.com/in/tanishq-kanare-649842227/ | GitHub

EDUCATION

College of Technology and Engineering, MPUAT   Sep 2021 – Jan 2025
Bachelor of Technology: Electronics and Communication Engineering, CGPA: 7.31

St. Anthony's Senior Secondary School   Feb 2020 – Jun 2021
Senior Secondary, 93.6%

EXPERIENCE

Cyber Security and Ethical Hacking Trainee: CDAC | Link   Jul 2024 – Aug 2024
- Executed penetration testing on the Sky-Tower Virtual Machine, compromising 90% of usernames and passwords, thereby highlighting critical security flaws
- Conducted ARP poisoning, Trojan attacks, and Social Engineering attacks on Metasploitable-3, exploiting 80% of discovered vulnerabilities and providing key recommendations for enhancing security defenses
- Captured web traffic, securing unauthorized access to usernames and passwords using OWASP, Burp Suite, and Foxy Proxy, uncovering critical vulnerabilities
- Implemented in-depth security scans such as NMAP, LDAP, and enumeration techniques, detecting potential threats and strengthening network security by 25% with the Wazuh framework

Intern: Pantech Solutions | Link | Project1 | Project2   Jun 2024 – Jul 2024
- Acquired in-depth knowledge of microcontrollers including ESP32cam, ARM7 LPC2148, 8051, and PIC microcontrollers, completing 2 projects and enhancing technical proficiency
- Gained hands-on experience with IDEs such as Arduino IDE, Keil U-vision, Nuvoton isp icp, and Blynk-app, developing and debugging microcontroller based applications
- Developed expertise in Embedded C programming and UART programming, coding lines for microcontroller projects, reducing development time by 20%
- Designed the layout for the 8051 microcontrollers using Allegro PCB design software, PCB designs with functionality in prototype testing
- Conducted a predictive maintenance case study for duct fans using ThingSpeak, ESP32, MH series vibration sensors, and MATLAB

Intern: ROBO-AI, My-Equation | Link | Project1 | Project2   Jan 2024 – Feb 2024
- Designed two robotics projects using SolidWorks and ANSYS, achieving accuracy in simulations and reducing design iterations by 30%
- Gained practical experience in embedded systems, Raspberry Pi, and optimal electronics usage in robotics, completing complex tasks that improved system performance
- Performed in-depth studies on emerging robotic technologies, analyzing 5+ case studies and staying updated on industry trends and innovations

Vocational Trainee: BSNL | GitHub   Jun 2023 – Jul 2023
- Developed proficiency with telecommunication and mobile communication equipment, improving operational knowledge by 40% across devices at switching and broadcasting centers
- Expanded understanding of mobile communication systems, modems, routers, and OTNM servers, enabling more efficient troubleshooting and maintenance tasks
- Learned concepts of Optical Fibers, Optical Communication, SFP modules, and industrial terminologies, achieving 15% faster deployment of communication networks

SKILLS

ARM Architecture	Keil uVision5 Compiler	Schematic Capture	Esp32 Development
Embedded C/C++	MATLAB	IOT Development	Logic Analyzers
RTOS	Analog Circuit Design	MS Excel	HIL Testing
AutoCAD	TinkerCAD	SolidWorks	Ethical Hacking
Microcontrollers	Robotics	ANSYS	Power Converters
PCB Layout Designing	Firmware Development	Arduino	Cyber Security

ACHIEVEMENTS

- Received a Letter of Recommendation from ROBO-AI for exceptional internship work   **Apr 2024**