

TAVAHEED TARIQ

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Email ✧ [linkedin](#) ✧ [Portfolio](#) ✧ [leetcode](#) ✧ [Github](#)

EDUCATION

National Institute of Technology Srinagar , Srinagar	Nov 2022 - present
Bachelor of Technology(B-Tech) Information Technology	CGPA: 8.99

MPML Higher Secondary , Srinagar	Dec 2019 - Dec 2021
HSC(10+2) PCM	CGPA : 9.82

TECHNICAL SKILLS

Core Programming	DSA, OS, DBMS, OOPs
Web Development	C, C++, Python
Operating Systems	HTML, CSS, JavaScript, Tailwind CSS, ReactJS, Node.js, Express.js, MongoDB, MYSQL
Other Tools	Windows, Kali Linux, Ubuntu, Parrot Linux
	Machine Learning, Deep Learning, Web Scraping, Web Automation, Internet of things
	Figma, Git, Github, Postman, LateX, Bash, Docker

EXPERIENCE

Research Intern - IoT and Embedded Systems	July 2024 - August 2024
Indian Institute of Technology (IIT) Roorkee	<i>Roorkee, India</i>

- Studied advanced IoT architectures, cloud integration (AWS IoT, Azure IoT), and event-driven systems for scalable IoT applications.
- Explored security in IoT, including Software-Defined Radio (SDR) integration and cryptography in embedded systems.
- Gained experience in IoT device management, integration techniques, and real-time data analytics for IoT-generated data.

PROJECTS

Machine learning/Deep learning

- Implemented and compared various ML models to classify gamma-ray data from the MAGIC telescope. ([Github](#))
- Developed a sentiment analysis model to classify IMDB movie reviews as positive or negative. ([Github](#))
- Engineered a CNN for real-time face mask detection using TensorFlow, achieving high accuracy in classifying mask usage in diverse facial images.([Github](#))
- Utilized the pretrained MobileNetV2 to distinguish between images of dogs and cats with high accuracy. ([Github](#))

Web Development

- Created an engaging desktop friendly racing game using HTML, CSS, and JavaScript.([Click](#)) ([Github](#))
- Created a dynamic Web Application, designed for penetration testing endeavors. ([Github](#))
- Developed a sleek and intuitive frontend for a cryptocurrency dashboard.([Click](#)) ([Github](#))
- Created a realtime chat web application that allows you to chat in realtime. ([Github](#))

Kernel Hacking

- Modified linux kernel to add new system calls.Compiled, installed and tested the modified kernel ([Github](#))
- Developed a feature-rich Unix-like shell in C, implementing command execution, I/O redirection, piping, and built-in commands with robust error handling and signal management ([Github](#))

ACHIEVEMENTS

- Achieved 1st place in "Bug Bounty" competition by efficiently identifying and solving bugs in provided programs.

EXTRA-CURRICULAR ACTIVITIES

- **Web Development Team Co-Lead, Techvaganza — NIT Srinagar**

Led the Web development team for Techvaganza, the annual technical fest at NIT Srinagar. Designed and implemented responsive and user-friendly web pages, enhancing the overall user experience for thousands of participants. Collaborated closely with team to ensure seamless integration and functionality.

- **Technical Member, Semicolon — NIT Srinagar**

As a Technical Member of Semicolon at NIT Srinagar, I organize and execute technical events like hackathons, coding competitions, and webinars to foster innovation and learning. I also plan engaging activities that blend technology with participation and collaborate with the team to enhance and diversify events.