

# TAVAHEED TARIQ

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## OBJECTIVE

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Detail-oriented IT undergraduate at NIT Srinagar with expertise in core DSA, OS, DBMS, and OOPs, proficient in C, C++, Python, and skilled in full-stack web development, web scraping, and machine learning.

## EDUCATION

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<b>National Institute of Technology Srinagar</b> , Srinagar	Nov 2022 - present
Bachelor of Technology(B-Tech) Information Technology	CGPA: 9.04

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

## TECHNICAL SKILLS

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

## EXPERIENCE

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<b>Research Intern - IoT and Embedded Systems</b>	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.

<b>Technical Member - Semicolon</b>	Sep 2023 - Present
Semicolon Club	<i>NIT Srinagar</i>

- Contribute to organizing and executing various technical events including hackathons, coding competitions, and webinars to foster a culture of innovation and learning among students.
- Assist in planning and implementing fun activities that blend technology with engagement, enhancing student participation in tech-related events.
- Collaborate with team members to brainstorm ideas for new events and improve existing ones, ensuring a diverse range of activities that cater to different interests within technology.

<b>Freelancer</b>	Dec 2023 - Present
Upwork	

- With a strong foundation in programming languages such as HTML, CSS, JavaScript, and Python, I have successfully delivered projects ranging from dynamic websites to data-driven applications.

## PROJECTS

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### 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. [\(Github\)](#)

### Web Scraping

- Developed a web scraping and automation project named Google Maps Scraper. [\(Github\)](#)
- Developed a web scraping bot - CryptoScraper which extracts real-time cryptocurrency data. [\(Github\)](#)
- Developed a web scraping bot which automates the download of full youtube playlist. [\(Github\)](#)

### Kernel Hacking

- Modified linux kernel to add new system calls. Compiled, installed and tested the modified kernel [\(Github\)](#)
- Enhanced the xv6 operating system by developing and integrating custom system calls [\(Github\)](#)
- Developed a multi-client network server in C implementing a custom protocol for interactive joke delivery, featuring process forking and robust error handling. [\(Github\)](#)

### 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 model to distinguish between images of dogs and cats with high accuracy. [\(Github\)](#)