TAVAHEED TARIQ

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OBJECTIVE

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

National Institute of Technology Srinagar, Srinagar — Nov 2022 - present
Bachelor of Technology(B-Tech) Information Technology — CGPA: 9.04

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

TECHNICAL SKILLS

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

EXPERIENCE

Research Intern - IoT and Embedded Systems — July 2024 - August 2024
Indian Institute of Technology (IIT) Roorkee — *Roorkee, India*

- 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.

Technical Member - Semicolon — Sep 2023 - Present
Semicolon Club — *NIT Srinagar*

- 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.

Freelancer — 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

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)
- 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)
- 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)

EXTRA-CURRICULAR ACTIVITIES

- **Frontend Team Lead, Techvaganza — NIT Srinagar**
  Led the frontend 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 backend developers to ensure seamless integration and functionality.