TANWEER ALI

B. Tech - Instrumentation and Control Engineering
Gender: Male
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Educational Qualification

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2018-Present	B. Tech- ICE	NIT, Trichy	7.04
2017	Class XII	Sree Ayyappa Public School, Bokaro, CBSE	86.8%
2015	Class X	Adarsh Vidya Mandir, Chas Bokaro CBSE	9.8

Academic Achievements

- Qualified for a **Standard Laptop** in **AIEESE-2018**(Primary).

Internship Experience

- **Software Engineering Internship at Navriti Technologies Pvt Ltd**: *Sep 2020 – April 2021*
  Developed a **Device Monitoring System** to **monitor employee's systems** and servers. It consists of a **Django** based web application from which System Administrators will monitor. Admin can also **connect to systems remotely** through WebSocket connected to a running **.NET console application** in windows as service and a **python script** for Linux clients through WebSocket. **PowerShell** script runs through a task scheduler in windows to ping the status, CPU Utilization, RAM Usage, Disk Usage to server at every 10 seconds and python script runs in Linux as a service for the same.

Other Projects

- **Container-Manager:** *Mar 2020*
  In this project, I have developed a **web application** to ease the control of **docker containers**. Major Feature included to **Upload Files** directly inside running container, use **web terminal** to execute commands inside running containers and other feature includes listing of all containers, list running containers, list all images, start, stop and restart containers. I have used **Docker's Engine API** for this purpose. Backend is built upon **NodeJS** and therefore child-processes are used to execute command for uploading files in running containers. Added **jQuery terminal** as a web terminal.

- **Video Meetup:** *June 2020*
  Built a **web application** that makes it easy to group up with people and **video call** with features included **live chat**. It is an **Node.js** based **peer to peer** video calling app. Used **PeerJS** and **Socket.io** for video calling part. Whenever a new user visits, it creates a unique URL which represents a room, users can share the link with friends, at one time maximum 2 people can enter one room at one time.

- **Synchly:** *Jan 2021*
  Synchly is an open-source tool to **Automate database backups** with customizable recurring schedules**.** The Synchly CLI is distributed as a npm package, and it is built in **Node**. Earlier Synchly supported only **MySQL** Database, I added support for **PostgreSQL** and **MongoDB**. In context of cloud backup support earlier it only supported **Google Drive** for backup purpose, I added support for **AWS S3**.

Technical Skills and Certifications

- Programming Languages : C, C++.
- Familiar with : Git, Docker.
- Certifications : Open-Source Software Development, Linux and Git Specialization (Coursera offered by The Linux Foundation/Online)

Positions of Responsibility

- **Web Developer, Office of International Relations:** *Sep 2020 – April 2021*
  Worked as a **web developer** of OIR. OIR intends to develop and coordinate the **international activities** of faculty and students at our college. As a part of **Web Dev team**, the work specifically involved in developing and managing the OIR website. We were a team of 5 members who **developed a portal** for faculties and students at our college, where faculties can host project ideas and students who are interested can apply to complete the project with faculty by submitting the proposals. The whole website was built using **NodeJS** and **MongoDB** was used as database.

Extracurricular Activities

Social Activities:

- A volunteer under the **National Services Scheme (NSS)**, which underlines that the welfare of an individual is ultimately dependent on the welfare of the society.

Sport Activities:

- Successfully completed a 10 KM marathon in **Sportsfete'19-** the inter-department sports fest organized by NIT Trichy.