

Himanshu Sahu

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EDUCATION

National Institute of Technology Srinagar

Srinagar, India

Bachelor of Technology in Information Technology | CGPA : 7.4/10

Aug 2019 – June 2023

Coursework: Data Structures, Algorithms, Operating Systems, Database Management Systems, Computer Networks, Distributed Systems

PROJECTS

- YouTube** | *React, Node.js, Axiom, YouTube API v3* | [GitHub](#) | [Live](#) | Oct 2022 - Oct 2022
- Developed a YouTube clone using **React** and the **YouTube API v3** from **RapidAPI** and Implemented all core YouTube features, including video browsing, search and **playback**
 - Built a user-friendly interface that is **responsive** and **Deployed** the application to **Render hosting** platform
- Load Balancer** | *Python, Flask, Multiprocessing* | [GitHub](#) | [Demo](#) | [Live](#) | Aug 2023 - Aug 2023
- Developed a load balancer project using **Python** and **Flask**, effectively **distributing** incoming client **requests** to different backend **servers** using **round-robin** algorithm
 - Utilized **multithreading & multiprocessing** within the load balancer to create a software-based **multi-server architecture**
 - reduced the load on a single server by 90%** for a 10-server cluster, resulting in improved performance
- Blog Website** | *CSS, Node.js, MongoDB Atlas* | [GitHub](#) | [Live](#) | Jun 2022 - Jun 2022
- Built a blog website using modern server-side **JavaScript** stack consisting of **Node.js**, **Express.js**, and **EJS**
 - Ensured data availability and security by using **MongoDB Atlas** as the **cloud-based database** service
 - Implemented basic **features** such as **posting** and reading blog posts, displaying the most **recent blog posts** on the **homepage**, and providing a **separate page** for each **blog post**
- Mental Health Monitor** | *Python, Flask, TensorFlow* | [GitHub](#) | [Demo](#) | Jan 2023 - Jun 2023
- Developed a Python **Flask-based** system that combines **Convolutional Neural Network (CNN)** and **OpenCV** to **detect signs of depression** with an **accuracy of 89%**
 - Utilized **emotion recognition** and a **series of questions** to assess users' mental health status, **providing valuable insights** and potential **early intervention**

TECHNICAL SKILLS

Languages: C, C++, Python, JavaScript, SQL, HTML/CSS

Frameworks/Databases: React, Node.js, MongoDB, Express.js, Flask, Django, RESTful APIs, MySQL

Tools: Git, GitHub, VS Code, PostMan

ACHIEVEMENTS

- ranked 83 globally** in CodeChef Starters 88 **among 18,000+ participants**
- Achieved a 3-star **rating(Max 1657)** on **codechef**
- Solved 800+ coding problems** on various platforms such as LeetCode, CodeChef, and GeeksForGeeks

PROFILE LINKS

- Codechef 
- Leetcode 
- GeeksforGeeks 
- CodeStudios 
- CSES 

CERTIFICATIONS

- Problem Solving (Intermediate) from HackerRank | [Certificate](#)
- SQL (Intermediate) from HackerRank | [Certificate](#)