

# Himanshu Sahu

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## EDUCATION

**National Institute of Technology Srinagar**  
*Bachelor of Technology in Information Technology*

Srinagar, India  
Aug 2019 – June 2023

**Coursework:** Data Structures, Algorithms, Operating Systems, Database Management Systems, Computer Networks, Distributed Systems, Object Oriented Programming (OOPs)

## EXPERIENCE

**Software Development Engineer 1 (SDE 1) - Backend**  
*Coredge.io*

Jan 2024 – Present  
Bangalore, India

- **Tech Stack:** Golang, Docker, Kubernetes, Helm Charts, gRPC, **Unix shell**, OpenAPI, Microservices
- Troubleshooted and resolved minor bugs in production, deepening understanding of the entire **product** and code-base and **contributed to POCs**
- Developed and implemented features in the main product, Identified and **eliminated race conditions and inconsistencies** within the codebase
- Developed a **SDK client** Plugin for **Protoc** Compiler that generates client for **Protobuf** definitions, enabling efficient **integration** of our product with external systems.

## PROJECTS

**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**

**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**

**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**

## TECHNICAL SKILLS

**Languages:** C, C++, Python, JavaScript, Go, Java, 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 1000+ DSA coding problems** on various platforms such as LeetCode, CodeChef, and GeeksForGeeks

## PROFILE LINKS

- Codechef [🔗](#)
- Leetcode [🔗](#)
- GeeksforGeeks [🔗](#)

## CERIFICATIONS

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