

# Himanshu Sahu

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## EDUCATION

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

Srinagar, India  
Aug 2019 – July 2023

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

## EXPERIENCE

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

Jan 2024 – Present  
Bangalore, India

- **Tech Stack:** Golang, Docker, gRPC, Linux, Microservices
- Developed a specialized **Plugin** for the **Protoc Compiler** that generates REST API clients for Protobuf definitions of our services, streamlining the integration process with external systems.
- Enhanced the **Dell ECS Go client** functionality by developing and integrating multiple APIs essential for bucket management and object storage capabilities, enabling seamless interaction with ECS servers.
- Worked on various **production bug** analyses and **resolutions**, including addressing a critical service crash issue caused by missing OCI headers during image pull operations, which involved thorough investigation.
- Enabled **public** and private **access** modes for **container registries** by implementing API enhancements that allow bypassing token verification for public registries, enhancing user experience.
- Conducted various **POCs** evaluations, verifying the feasibility of **pushing** and pulling container **images** without a container runtime(**docker**), ensuring compatibility in **constrained environments**.
- Developed a custom **HTTP client** for the **MAAS servers**, enabling efficient downloading of commissioning logs from bare metal servers, extracting essential details, and storing the data in the database.

## PROJECTS

**Load Balancer** | *Python, Flask, Multithreading* | [GitHub](#) | [Demo](#) | [Live](#) |

Aug 2023 - Aug 2023

- Developed a load balancer project using **Python** and **Flask**.
- Implemented **round-robin** algorithm to effectively **distribute** incoming **requests** to backend **servers**.
- Utilized **multiprocessing** concept 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**

## PROBLEM SOLVING / CERTIFICATIONS

- Achieved a 3-star **rating**(Max **1657**) on **CodeChef**
- **ranked 83 globally** in **CodeChef** Starters 88 among **18,000+** participants
- **Solved 1000+** **DSA coding problems** on various platforms such as **LeetCode**, **CSES**, and **GeeksForGeeks**
- Problem Solving (Intermediate) from HackerRank | [Certificate](#)
- SQL (Intermediate) from HackerRank | [Certificate](#)

## TECHNICAL SKILLS

**Languages:** C/C++, Go, Python, SQL, JavaScript, Java, HTML/CSS

**Technologies:** HTTP, REST APIs, gRPC, MongoDB, Flask, Django, MySQL, Express.js

**Developer Tools:** Git, GitHub, Docker, Kubernetes, Helm, VS Code, PostMan, OpenAPI