

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, Unix, 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 **autoplay**

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