Himanshu Sahu

+91-9462043729 | himanshu00738@gmail.com | linkedin/himanshu | github/himanshusahu0001 | Portfolio

EDUCATION

National Institute of Technology Srinagar — Srinagar, India
Bachelor of Technology in Information Technology — *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 — Jan 2024 – Present
Coredge.io — *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 **POC**s 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**.
- Implimented **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 / CERIFICATIONS

- 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