Himanshu Sahu

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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 (OOPs)**

EXPERIENCE

Software Development Engineer 1 (SDE 1) - Backend — Jan 2024 – Present
Coredge.io — *Bangalore, India*
- **Tech Stack:** Golang, **Docker, Kubernetes**, Helm Charts, gRPC, **Unix**, OpenAPI, **Microservices**
- Developed an **SDK client** Plugin for **Protoc** Compiler that **generates REST API Client** for **Protobuf** definitions, enabling efficient **integration** of our product with external systems.
- Troubleshooted and resolved critical 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

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, REST APIs, MySQL
Tools: Git, GitHub, VS Code, PostMan

PROBLEM SOLVING 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

- **Leetcode** ↗
- **Codechef** ↗
- GeeksforGeeks ↗
- CSES ↗
- CodeStudios ↗
- Codeforces ↗

CERIFICATIONS

- Problem Solving (Intermediate) from HackerRank | Certificate
- SQL (Intermediate) from HackerRank | Certificate