Himanshu Sahu

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EDUCATION

National Institute of Technology Srinagar — Srinagar, India
Bachelor of Technology in Information Technology — *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 — Jan 2024 – Present
Coredge.io | *Tech Stack: Golang, Docker, Kubernetes, Helm Charts, gRPC, Unix shell* — *Bangalore, India*
- 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, including Automated regular vulnerability scans of Docker images stored in the container registry leveraging cron jobs
- Developed a client SDK Generator that automatically generates client for OpenAPI specification files or Protobuf definitions. generated client code can be used for testing of APIs

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**
- **reduced** the **load on a single server by 90%** for a 10-server cluster, resulting in improved performance

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