Saurabh Sharma

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PROJECTS

Helmdall - plug-and-play system auditing tool - winning project for Kavach, 2023

- Spearheaded the development of Helmdall, winning the National Kavach 2023 cybersecurity competition and securing invitation to IIT Kanpur's C3I Startup Incubator program.
- Engineered a high-performance client software in Rust, reducing system overhead by 30% compared to competitors.
- Designed a scalable architecture supporting real-time monitoring of 100+ clients simultaneously, with 99.9% uptime.
- Led a 5-person engineering team to develop MVP in 3 months, integrating AI-driven threat analysis and automated reporting features.

Tags: Rust, GoLang, NuxtJS, Cybersecurity, Network Programming, Daemon

Samklaang - intelligent collaboration suite - winning project for the Smart India Hackathon, 2023

- Led development of Samklaang, winning the Smart India Hackathon 2023 among 2000+ teams nationwide.
- Engineered a high-performance backend using GoLang's Gofiber, supporting 1000+ simultaneous users.
- Integrated LiveKit for scalable video conferencing, enabling high-quality SFU calls for thousands of participants.
- Employed lossless recording methods, improving transcription accuracy by 40% and enabling AI-driven insights.

Tags: GoLang, NextJS, WebRTC, Electron, Livekit

CLIshae - pastebin server from scratch in C   esskayesss/clishae

CLIshae is a cURL-focussed multi-threaded pastebin server written from scratch in C. It has a complete implementation of HTTP/1.1 and uses system calls and low-level kernel calls.

Tags: C, Unix, Socket Programming, System Calls, HTTP Server

b64ed - base64 encoder and decoder from scratch in C   esskayesss/b64ed

b64ed is a base64 encoder and decoder implemented from scratch in C. Again, it is more CLI focussed and accomplishes the encoding and decoding using bitshifts and bitmasks.

Tags: C, Unix, Socket Programming, System Calls, HTTP Server

EXPERIENCE

Instahyre   September - November, 2024

Full Stack Developer (Intern)

- Built and maintained critical components for the candidate side across the backend and frontend applications.
- Worked closely with cross-functional teams, including developers, designers, QA and product managers to implement incredibly lean, high functioning application components.

Tags: Python, Django, Celery, Angular, Less

All India Council for Technical Education   May, 2024 -

Team Lead and Student Developer

- Developing Samklaang further for application in the internal workings of AICTE.

Tags: ExpressJS, NextJS, LiveKit

PrintHaste   2021

Full Stack Engineer (Freelance)

- Designed and developed a complete e-commerce website, handling both frontend and backend.

Tags: Django, VueJS, PostgreSQL

SKILLS AND CERTIFICATES

- Neural Networks and Deep Learning - deeplearning.ai
- C Programming with Linux Specialization [7 courses] - dartmouth
- **Languages:** Rust*, GoLang, C/C++, Javascript, Python, Bash, Java, Perl
- **Frameworks:** ExpressJS, TypeScript, ReactJS, NextJS, NuxtJS, Django, FastAPI, GoFiber
- **Tools:** Docker, Kubernetes, Git

ACHIEVEMENTS

- **Winner of Kavach, 2023** and the Team Lead for my team
- **Winner of Smart India Hackathon, 2023** and the Team Lead for my team

EDUCATION

Techno India University Kolkata, IN   August, 2021 - 2025
B.Tech - Computer Science and Engineering (AI/ML)   CGPA: 8.91

Kalyani Central Model School Kolkata, IN   April, 2020
CBSE (XII) - Computer Science   CGPA: 87.6%

Don Bosco School, Bandel Kolkata, IN   April, 2018
ICSE - Computer Science   CGPA: 97%