

SAUHARDHA KAFLE

Computer Engineer



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ABOUT ME

I'm Sauhardha Kafle, a Computer Engineer and developer passionate about building clean, efficient, and user-friendly applications. I enjoy working across the stack – from designing frontend interfaces, backend system to writing Low-level and System level programming. I also play with Deep Learning, Natural Language Processing models.

EDUCATION

Kathmandu Univeristy | 2022-2026

Bachelor in Computer Engineer

PROJECTS

- **CodeRoom** [Link](#)

A real-time collaborative coding platform with multi-user editing, chat, and live code compilation. Uses docker to compile code, web socket for real time messaging in NodeJs. Other feature includes Authentication, OTP code and uses MySQL for database.

- **Torrex** [Link](#)

A bittorrent client implementation from scratch in rust programming language. Feature includes, downloading data using torrent file or magnet link that supports TCP connection.

- **Metrics** [Link](#)

A template to demonstrate how we can achieve real time monitoring throughout the codebase. This uses tracing package and gRPC to show data.

- **Aether** [Link](#)

A remote desktop sharing web application. This uses web-rtc to facilitate the sharing of desktop-state through video. Map the cursor pointer from webpage to the desktop for reflecting changes.

SKILLS

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|-------------------------------|--------------|---------------------|-------------------|
| • Deep Learning | • Rust | • Actix-web | • NextJS, ReactJS |
| • Natural Language Processing | • TypeScript | • NodeJS, ExpressJS | • Redis, MySQL, |
| | • Python | • AIOHTTP, Flask | MongoDB, Appwrite |