# RIKESH SHERPA

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## PROJECTS

**VideoFlow | Scalable Video Processing Platform**  Link

*Tech Stack*: Next.js, Docker, Redis Streams, FFmpeg, MinIO, Firebase

- Architected a distributed video processing pipeline using Docker to containerize and horizontally scale worker services, enabling the system to handle 10+ concurrent video uploads.
- Decoupled pub/sub architecture with Redis Streams and consumer groups to create a resilient job queue, ensuring reliable video transcoding by worker instances..
- Implemented secure media storage and delivery using MinIO (S3-compatible) object storage, serving video content to the frontend via time-sensitive signed URLs.

**GamIt | Competitive Gaming Hub**  Link

*Tech Stack*: Next.js (Server Components), Prisma, PostgreSQL, JWT

- Developed two interactive games featuring real-time leaderboards and automated scoring, leveraging Next.js Server Actions for efficient, secure data mutations.
- Designed a reward system that grants exclusive avatars to top players, successfully enhancing user engagement and retention.

**Blind Assistant | Hackathon Project**  Link

*Tech Stack*: React, TensorFlow.js, Web Speech API, Tailwind CSS

- Developed two interactive games featuring real-time leaderboards and automated scoring, leveraging Next.js Server Actions for efficient, secure data mutations.
- Designed a reward system that grants exclusive avatars to top players, successfully enhancing user engagement and retention.

## WORK EXPERIENCE

**Frontend Developer | Tuki Logic**                                        *August 2023 – January 2024*

- Developed a responsive web application using Next.js and Tailwind CSS, integrating RESTful APIs to render dynamic content from a headless CMS..
- Restructured the admin panel's complex forms into a tabbed, multi-section layout with controlled components, streamlining data entry and reducing input time by an estimated 30%.
- Collaborated directly with the backend team to integrate new API endpoints, ensuring smooth data flow and resolving bugs across production applications.

## LEADERSHIP & COMMUNITY ENGAGEMENT

**Creative Director | Prime IT Club**

- Conducted a hands-on workshop on Git/GitHub and version control for 30+ students, improving the technical proficiency of club members
- Volunteered community outreach programs, teaching HTML, CSS, and JavaScript fundamentals to local school students of various age groups.
- Currently mentoring 6 students in a focused course on web design principles and modern web development practices.

**Technical Writing**  Link

- Authored a blog post explaining multi-worker concurrency and distributed processing based on the video-pipeline project.

## SKILLS

- **Languages**: JavaScript (ES6+), TypeScript
- **Frontend**: React, Next.js (App Router, Server Actions), Redux Toolkit, Tailwind CSS, Cypress
- **Backend**: Node.js, Express.js, RESTful APIs, Prisma ORM
- **Databases & Storage:** PostgreSQL, Firebase, MinIO (S3)
- **Tools** : Docker, Redis (Streams), Git/GitHub, Postman, FFmpeg