

Yogesh Kumar

Full-stack engineer: I design how products and systems connect.

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EXPERIENCE

SystemStar Infotech

Dec 2025 – Present

Software Engineering Intern · 3D & Web · Remote

- Built a 360° video web player in React and Three.js with camera controls and a modular component system.
- Built an FFmpeg pipeline that transcodes raw 4K footage into adaptive HLS streams.
- Cut segment length to 2 s (half the common 4 s default) to lower time-to-first-byte and start playback sooner.

SELECTED SYSTEMS

Chatterbox TTS Pipeline

Python · PyTorch · CUDA · RunPod · Node.js · MySQL

Jul 2026

- Rewrote S3Gen inference as bounded-memory chunked execution: VRAM went from 16 GB (48–80 GB on long inputs) to a stable ~5 GB at any length.
- Patched position overflows and token-boundary bugs, eliminating OOM crashes and voice hallucinations across 2,655+ automated listings.
- Moved deployment from 48 GB accelerators to consumer GPUs (RTX 3070, RunPod), cutting infra cost by 87%.

CoralTeams · LAAF dev infra

Next.js · FastAPI · Rust · Ollama · Docker · ngrok

May 2026

- Built CoralTeams, a self-hostable Teams interface for Coral with a Docker image, and ran its 4 GB+ AI stack at \$0/month across Vercel, GitHub Codespaces, Render and a Colab GPU joined by ngrok tunnels.

AgentsFX · Godot add-on

Godot · ElevenLabs · LLM

Dec 2025

- Track winner at Calcutta Hacks: a Godot add-on where an LLM reads the game's code and screenshot, ElevenLabs generates the needed SFX, voices and BGM, and everything is integrated in one click.

Cursor for n8n

JavaScript · Chrome extension · Python · RAG · FAISS · SQLite

Jul – Sep 2025

- Won 1st prize at Ideatex, GDG-HITK (400+ developers) for a Chrome extension that turns natural language into n8n workflow JSON.
- Grounded generation in n8n docs via Context7, and prototyped RAG over n8n's node database and workflow templates (FAISS + Gemini).

OPEN SOURCE & LEADERSHIP

GirlScript Summer of Code '25 · AlchEmailyst

Project Admin & community organiser

Jul – Oct 2025

- Ran code reviews, untangled merge conflicts and onboarded 30+ contributors (42★, 36 forks).
- Took the project from Top 10 to Rank 1 on the Alchemyst AI contributor leaderboard after opening it up via GSSoC.
- Built the Gmail integration with Google OAuth 2.0 and the Alchemyst AI layer with a Gemini fallback; grew a 1,000+ member developer Discord.

RECOGNITION

Winner, TCS hackathon

Jul 2026

Track winner, Calcutta Hacks

Dec 2025

1st runner-up ×2, e-Summit '25, EDC HITK

Nov 2025

1st prize, Ideatex, GDG on Campus HIT

Jul 2025

Grand Finalist, Smart India Hackathon

Dec 2024

3rd of 200, HackHeritage

Sep 2024

SKILLS

Languages

TypeScript, Python, JavaScript, SQL, C, Java

Systems

ssh, ngrok, FFmpeg, HLS streaming, WebSockets, Git, GCP, self-hosting

Backend & data

Node.js, Express, MySQL, SQLite, Firebase, BunnyCDN

Frontend

React, Next.js, Three.js

AI & compute

PyTorch, TensorFlow, CUDA, RunPod, RAG, MCP, LLM agents

EDUCATION

Heritage Institute of Technology, Kolkata, B.Tech, Computer Science & Engineering

2024 – 2028