Harshit Srivastava

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Technical Skills

Languages: JavaScript, Go, C++
Frameworks/Tools: Node.js, Gin, Next.js, AWS
DevOps: Docker, CI/CD, Git, Microservices

Education

Indian Institute of Information Technology Design and Manufacturing Jabalpur 2022 – Present
Bachelor of Technology in Computer Science and Engineering *CGPA: 8.0/10.0*

Professional Experience

Software Engineer Intern August 2025 – Present
Rimo LLC *Tokyo, Japan*

- Developed and maintained scalable backend APIs in Go and built reusable UI components using Next.js.
- Built a real-time retrieval-augmented suggestion pipeline for live in-meeting question recommendations using a client-side BERT model executed via ONNX Runtime Web with WebGL acceleration.
- Implemented in-app notification infrastructure with scheduled cloud triggers and Redis-backed queue-based event delivery.
- Reduced legacy API latency by introducing pagination and offloading expensive client-side search operations to Elasticsearch-backed server-side querying.

Backend Intern May 2025 – August 2025
Connexlab *Remote*

- Built a real-time AI interviewer platform using LiveKit Agents SDK with OpenAI-powered speech-to-text and text-to-speech pipelines for interactive voice conversations.
- Developed an independent YOLO-based frame-by-frame cheat detection microservice for interview proctoring with asynchronous AWS SQS-based event processing.
- Designed fault-tolerant distributed worker infrastructure using AWS Fargate Spot workers with dead-letter queues for resilient video analysis and retry handling.

Technical Projects

Vithos – AI Health Data Platform | *Next.js, Express.js, Supabase, Redis, BullMQ* | Live | GitHub

- Built a multi-tenant platform converting PDF lab reports into a queryable health dataset.
- Implemented RAG-based chat using pgvector for semantic retrieval over medical history.
- Designed async ingestion pipeline (BullMQ + Redis) with scalable workers for parsing & embeddings.
- Developed biomarker tracking & trend analytics with dashboards and health nudges.
- Ensured secure storage & sharing via Supabase RLS (DB-level tenant isolation).

goComp – Distributed Code Judge Engine | *Go, Docker, Redis, REST APIs, Concurrent Worker Pools* | GitHub

- Built a distributed online code judge engine in Go with isolated containerized execution environments for secure multi-language code evaluation.
- Designed concurrent worker pipelines and execution queues for scalable submission processing with timeout and resource-limit enforcement.
- Implemented sandboxed runtime orchestration with Docker-based process isolation, stdout/stderr capture, and deterministic test execution.

Awards & Achievements

MCM Scholarship Recipient (2022–2023) – Top 1% academic performance at IIITDM Jabalpur
Convolve (4.0) – All India Rank 2 (10k+ participants)
Rimo Hack (Tokyo) – Winner (Rimo teams)
Competitive Programming: Codeforces Specialist (1523), CodeChef 4-Star (1624), 300+ algorithmic problems solved