Harshit Raj

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Education

Indian Institute of Technology Madras 2024 – 2028
Bachelor of Science in Data Science and Applications CGPA: **9.2/10**

Experience

SM Interactive Pvt. Ltd. (RoxStar) May 2026 – Present
Software Development Engineer in Test / Site Reliability Engineer Intern

- Owned the complete implementation, testing and production deployment of **Phase-1 of roxstar.in**, delivering both frontend and backend features using Express, TypeScript, MySQL and Node.js.
- Built CI/CD pipelines using **Docker** and **GitHub Actions**; automated frontend deployments to **Google Cloud Run** while managing backend image build and registry workflows.
- Designed and implemented a deep-link routing mechanism enabling seamless navigation between the web platform and Android application while preserving referral attribution and contextual content.
- Built referral tracking and custom analytics pipelines to measure user acquisition, installation sources and web conversion metrics.
- Reduced LiveKit live-stream reconnection latency after application backgrounding from approximately **4 seconds to under 500 milliseconds** by optimizing connection lifecycle management and client-side state persistence.
- Developed a Proof-of-Concept for streaming **LiveKit WebRTC** sessions to the web through an **HLS** pipeline, enabling live broadcasts to be viewed directly on **roxstar.in/user/:id/live**.
- Contributed to production engineering and release reliability for a live social platform serving **100K+ Play Store installs**, **thousands of daily active users** and **hundreds of live broadcasts every day**.

Projects

APIPulse – Multi-Tenant API Monitoring Platform Mar 2026 – Present
Node.js, Express.js, MongoDB, PostgreSQL, Docker

- Building a multi-tenant SaaS platform for API uptime, latency and health monitoring with strict tenant-level isolation.
- Designed a modular monolith architecture with JWT authentication, RBAC and Dockerized deployment using PostgreSQL and MongoDB.

DevTinder – Developer Networking Platform Dec 2025 – Jan 2026
MERN, Socket.io, AWS EC2, AWS SES, Nginx

- Built a production-style MERN platform featuring real-time messaging using Socket.io.
- Deployed on AWS EC2 behind Nginx and integrated AWS SES for transactional email delivery.

Technical Skills

Languages: Java, JavaScript, TypeScript, PHP, Python, SQL

Backend: Node.js, Express.js, REST APIs, JWT, Socket.io

Frontend: React.js, HTML5, CSS3, Tailwind CSS

Databases: MySQL, MongoDB, PostgreSQL, Redis

Cloud & DevOps: Google Cloud Run, Docker, GitHub Actions, CI/CD, Linux, Nginx

Streaming: LiveKit, WebRTC, HLS

Tools: Git, GitHub, Postman, VS Code