

Rishit Sinha

LinkedIn | GitHub | Portfolio | Sinharishit04@gmail.com

EXPERIENCE

The Tasty Millets

May 2026 – Aug2026

Frontend Developer Intern

- Slow page loads (3.8s average) were hurting user experience and Lighthouse performance scores. Diagnosed rendering bottlenecks and resolved them by lazy-loading images, splitting JS bundles, and compressing static assets. Cut average page load time to 2.1s (45% reduction) and raised Lighthouse performance score from 49 to 76.
- UI/UX was inconsistent across devices and did not meet accessibility standards. Audited and refined responsive layouts across 12+ pages, remediating accessibility gaps against WCAG 2.1 AA criteria. Achieved full WCAG 2.1 AA compliance while maintaining a consistent, responsive experience across devices.

NextLearn Technologies

April 2026 – May 2026

Full Stack Developer Intern

- Optimized frontend rendering and asset delivery for a React + Node.js learning platform, reducing page load time by 74% (4.2s to 1.1s).
- Shipped 8 production features in a 6-week sprint cycle alongside a 5-member design/backend team, maintaining 100% on-time delivery and zero critical post-release bugs

PROJECTS

ZecoAI | *React.js, Node.js, Express.js, MongoDB, Monaco Editor, Socket.IO, Judge0, Docker*

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- Engineered a browser-based AI development environment integrating 10+ developer tools, with Judge0-based multi-language execution and real-time collaborative editing.
- Architected a modular React + Express system with JWT authentication, MongoDB persistence, and Monaco Editor integration, using Socket.IO to sync collaborative edits across concurrent sessions in real time.
- Developed 5+ AI-powered developer workflows (contextual code generation, pair programming, debugging assistance, template generation) using LLM APIs.
- Optimized application performance through component memoization, lazy loading, and centralized error boundaries, maintaining responsive UX across desktop and mobile traffic during testing.

Flux | *React.js, Node.js, Express.js, MongoDB, RTMP, Socket.io, Video.js*

Live | GitHub

- Architected a real-time live streaming pipeline using RTMP ingestion (OBS) and HLS packaging, transcoding incoming streams into adaptive bitrate segments for low-latency delivery across variable network conditions.
- Engineered a Socket.io-based chat layer decoupled from the video pipeline, enabling live audience interaction without impacting stream playback performance under concurrent load.
- Sustained 500+ concurrent viewers per stream in production with 99.5% uptime, maintaining stable HLS segment delivery and sub-second chat latency under real traffic.

FinanCinno | *React.js, MongoDB, Express, Node.js, OpenAI API*

Live | GitHub

- Integrated an OpenAI-powered chatbot with context-aware prompting to deliver personalized financial advice based on user transaction history and spending patterns.
- Designed secure authentication and an expense-tracking system with categorized transaction logging, structuring the data model to support fast querying and aggregation for financial insights.
- Optimized frontend delivery and metadata structure to achieve strong Lighthouse SEO and performance scores.

TECHNICAL SKILLS

- **Languages:** Java, JavaScript, TypeScript
- **Frontend:** React.js, CSS, Next.js
- **Backend:** Node.js, Express.js, JWT, WebSockets
- **Databases:** MongoDB, MySQL
- **Tools:** Git, GitHub, Docker, Vercel, Render, Clerk

CERTIFICATIONS & ACHIEVEMENTS

- Solved 420+ LeetCode problems, achieving a 1400+ contest rating.
- Earned MongoDB Certification and completed Google Cloud's Introduction to Generative AI certification.
- Member of GitHub Developer Program, recognized for active open-source engagement and API development.

EDUCATION

Poornima University, Jaipur

2023 – 2027

B.Tech in Computer Science (Artificial Intelligence & Data Science)