Ansh Singh

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Summary

Experienced in full-stack web development using Next.js, TailwindCSS, Express.js, SQL/NoSQL database. Proficient in Docker and Linux systems.

Education

SRM IST Chennai, B.tech in Computer Science and engineering   Jan 2022 – Jan 2026

RPS International School, High School Science   Apr 2020 – Mar 2022

Work Experience

Web developer intern, Quamin Tech Solutions   Oct 2024 – Feb 2025

- Automated database updates while cutting costs by 35% and reducing write operations to nearly one-third
- Developed back-end API to fetch real-time data from sensors
- Integrated IoT sensor data to a front-end dashboard
- Added proper rate limit to API and various sanity checks safeguarding API against misuse

Projects

Idea Clinic forum   ideaclinic-forum.vercel.app/

- Developed a full-stack forum website for SRM Incubation Cell using Next.js, TypeScript, and Supabase
- Designed and optimized SQL database schemas for efficient data management
- Built post-creation workflows and implemented dynamic post-retrieval from the database.
- Resolved front-end design issues, improving UI/UX consistency and responsiveness
- Tech Stack: Nextjs, Supabase (SQL DB)

Image converter   Source Code

- A high-speed image conversion web app built using Next.js and Sharp for back-end image processing. Currently a work in progress with many upcoming features.
- Using Server-Side Rendering (SSR), decreased loading time by 3000ms
- Tech Stack: Next.js, Express.js

Benchmark tool   Source code

- This Arduino code aims to benchmark all main functions of Arduino boards
- It can benchmark calculation speed, assembly instruction time, memory fetch latency, pin input output latency etc. and provide a final score to determine performance
- It can benchmark a Device within 5-10 Minutes accurately
- Tech Stack: Arduino

Technical Skills

- Frontend: Next.js, React.js, Tailwind CSS, TypeScript
- Backend: Node.js, Express.js, Supabase, REST APIs, SQL, NoSQL
- DevOps & Tools: Docker, Linux, Git, AWS
- Other: Arduino, Machine Learning (AWS Academy ML Foundations)

Awards

1st prize winner in hackathon genesis 1.0   Feb 2024

Developed a decentralized voting app using blockchain technology, focusing on anonymous user identification

TPHxSRM

Certification

AWS Academy Graduate - AWS Academy Machine Learning Foundations