

AJAY SINGH RAGHUWANSHI

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Summary

Software Engineer who ships production applications across the full stack in TypeScript, from REST API backends on Node.js with Prisma and PostgreSQL to React and Next.js frontends. Builds secure, well-structured services with authentication, role-based access control, request validation, and Docker deployment, and has improved Core Web Vitals on live client sites. Depth backed by 500+ solved DSA problems across six competitive programming platforms.

Education

Parul University

B.Tech in Computer Science and Engineering | CGPA: 7.20/10

2023 – 2027 (Expected)

Vadodara, Gujarat

Indian Institute of Technology Madras

BS in Data Science and Applications | Foundation Level Completed

2024 – Dec 2025

Online

Experience

DigiFrills

2024 – 2025

Full Stack Development Intern | digi.frills.in

Remote

- Built and shipped production frontend for client-facing websites in **React**, **Next.js**, **TypeScript**, and **Tailwind CSS**, owning features from Figma handoff through code review to **deployment on Vercel**.
- Reduced page load times by **30%** through route-level **code splitting**, responsive image optimization, and **lazy loading** of below-the-fold content, improving **Core Web Vitals** and organic **SEO**.
- Designed a **reusable, mobile-first component library** with shared layout and styling conventions, eliminating duplicated markup and keeping new pages structurally consistent as the site grew.

Projects

MedInsight AI – Clinical NLP Annotation Backend

2026

TypeScript, Hono, Prisma, PostgreSQL, Zod, Docker

[GitHub](#)

- Built a production **REST API** in **TypeScript** on **Hono**, securing routes with **API-key authentication**, **role-based access control**, and a sliding-window **rate limiter**, with in-memory key caching to cut database round-trips.
- Designed a **PostgreSQL** schema with **Prisma ORM** across six related entities using composite indexes, soft deletes, and **SHA-256** content hashing to deduplicate uploads, with **atomic transactions** for consistent writes.
- Integrated a **Groq LLM** (Llama-3.3-70B) for clinical entity extraction, validating each response against a strict **Zod** schema, filtering by confidence, and mapping results to character-level offsets for human-in-the-loop review.

DigiFrills – Production Marketing Website | Next.js, TypeScript, Tailwind CSS, Framer Motion | [Live](#)

Jun 2025

- Architected and shipped the company's live public site on the **Next.js App Router** with **static site generation (SSG)**, a reusable component system, and **SEO-optimized, accessible** routes built to brand guidelines.
- Implemented scroll-driven **Framer Motion** transitions isolated from render-critical code, protecting **performance**, first paint, and **Core Web Vitals** across a fully **responsive** layout.

MedLinkPro – Healthcare Management Platform | React, JavaScript, Tailwind CSS, Framer Motion | [GitHub](#)

Jan 2025

- Built a modular **React component architecture** for patient and staff workflows from **reusable components**, using **React Hooks** for **state management**.
- Delivered an accessible, fully **responsive** interface with simple **UX**, usable across devices for patients of all ages.

Technical Skills

Languages: JavaScript, TypeScript, Python, C++, Java, SQL

Frontend: React.js, Next.js, Tailwind CSS, Framer Motion, React Hooks, SSG, Responsive Web Design, Accessibility, SEO

Backend: TypeScript, Node.js, Hono, Express.js, REST APIs, Prisma ORM, PostgreSQL, Authentication, RBAC, Zod

Databases: PostgreSQL, Neon, MongoDB, Firebase

Cloud & Deployment: Docker, AWS (EC2, S3, Lambda), Vercel

Developer Tools: Git, GitHub, VS Code, Postman, Figma

CS Fundamentals: Data Structures & Algorithms, Object-Oriented Programming, DBMS, Operating Systems, Computer Networks

Certifications

AWS Academy Graduate – Cloud Foundations | Amazon Web Services | [Badge](#)

Aug 2025

Artificial Intelligence Fundamentals | IBM SkillsBuild & Cisco Networking Academy | [Badge](#)

Sep 2025

Salesforce Trailhead | Hiker Rank, Salesforce User Basics | [Profile](#)

Jul 2026

Achievements & Competitive Programming

- Solved **500+** **algorithmic problems** in **Data Structures and Algorithms** across [LeetCode](#), [Codeforces](#), [CodeChef](#), [GeeksforGeeks](#), [AtCoder](#), and [HackerRank](#).
- Selected among the **Top 10 teams (Consolation Prize)** at **PU Code Hackathon 2.0** under competitive time constraints.