Dinesh Yadav

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EDUCATION

- **Indian Institute of Information Technology Vadodara ICD** — Diu, India
  Bachelor of Technology - Computer Science and Engineering; GPA: 7.50 — Nov 2022 - present
  Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Computer Networking, DBMS, Machine Learning*

TECHNICAL SKILLS

- Programming Languages : C, C++, JavaScript, Typescript, SQL, Python
- Frontend & Frameworks : HTML, CSS, React.js, Next.js, Tailwind CSS, Redux, Zustand
- Backend & Databases : Node.js, Express.js, REST APIs, JWT, MongoDB, MySQL, Prisma, Mongoose
- Software Architecture : OOP, Design Patterns, SOLID Principles, Low-Level & High-Level System Design
- Tools and Devops : GitHub, Docker, Nginx, CI-CD

WORK EXPERIENCE

- **AeroYantra** — Remote
  Software development engineer (Part-time) — Jun 2025 - present
  - Reduced user authentication-related support queries by **30%** through the implementation of secure **mobile OTP**, **email magic-link**, and **password reset** flows using modern authentication protocols.
  - Increased user **interaction and retention** among **1000+ active users** by delivering a highly **interactive and personalized dashboard** for viewing connected sites, survey history, and data consumption.
  - **Devised** a time-efficient algorithm for a **3D measurement tool** in Three.js using **linked lists, maps, and vectors** to optimize measurement operations and spatial computations.
- **SapmenC** — Remote
  Software development engineer (Part-time) — Feb 2025 - July 2025
  - Boosted task completion and reduced backlog by developing a **project management** tool with List, Kanban, and Calendar views using Next.js, Prisma, and React Query, **saving 15+ hours weekly** previously spent on manual task allocation.
  - **Accelerated page load speed by approximately 40%** and enhanced mobile accessibility by **leveraging** Next.js server-side rendering and a mobile-friendly adaptive layout.
  - **Minimized unauthorized logins by 30–40%** and improved database query response time by 20–25% by using Zod validation and Zustand for efficient **state handling**.

PROJECTS

- **RapidHospital GitHub Demo** — Jan 2025 – Mar 2025
  Hospital Booking Web App
  - Improved hospital discovery experience by implementing search, filters, and reviews using Next.js and Redux, **achieving an average page load time of 951ms** and a perfect SEO score of 100.
  - Secured booking system with JWT authentication and auto-cancel logic on refresh, designed to enhance session integrity and prevent duplicate bookings, improving booking reliability for up to 100+ daily users.
  - Enhanced performance and **user experience through server-side rendering**, TypeScript safeguards, and cross-device compatible UI.
- **HODO GitHub Demo** — Jan 2024 – Apr 2024
  Social Media Application
  - Engineered a social media platform with 6+ features—real-time chat, friend connections, profile personalization, and geolocation—building 25+ modular components for scalable, maintainable code using React.js and WebSockets.
  - Augmented content delivery efficiency by integrating Cloudinary for optimized image storage and retrieval, **reducing image load times by up to 70%** and cutting bandwidth consumption by approximately 50%.
  - Enabled contextual connectivity through **Geographical API integration** to locate nearby users, enhancing engagement and enriching mobile-friendly user experience.
- **Stavya GitHub Demo** — Dec 2023 – Jan 2024
  Cultural Fest Website
  - Elevated user engagement by crafting a **responsive web app showcasing 13+ events** with detailed descriptions and dual registration forms for teams and individuals using React.js and Bootstrap.
  - Orchestrated rapid load times and seamless data handling by architecting a Node.js backend with MongoDB; developed 10+ robust API endpoints to enhance event management scalability and responsiveness.

HONORS AND AWARDS

- **Clinched 2nd position out of 12 teams** in ROBO Arena, a competitive autonomous car racing event requiring precise control logic and real-time decision-making. - Feb, 2024
- **Mastered over 850+ data structures** and algorithms challenges on LeetCode, attaining a peak rating of 1645 and showcasing analytical depth and consistency.
- Secured runner-up position at Hack IIITV 2023, an institute-level hackathon hosted by IIIT Vadodara, by **forging** a functional prototype under strict time constraints. – Feb, 2023