HARIOM SINGH

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Education

Gurukul Kangri Vishwavidyalaya, Haridwar, India	**2021 - 2025**

- Computer Science and Engineering| CGPA: **7.89**

Central Hindu School, Varanasi, India	**2019- 2020**

- *CBSE (Class XII), Percentage:*75

Central Hindu School, Varanasi, India	**2017- 2018**

- *CBSE (Class X), Percentage:*91

Skills

Languages & Core: C++, C, Java, Python, Data Structures and Algorithms

Frontend: HTML, CSS, JavaScript, React, Tailwind CSS, Shadcn UI, Next.js

Backend: Node.js, Express.js, MongoDB, REST APIs

Tools & Others: Git, GitHub, Redux Toolkit (RTK Query), Zustand, Multer, Cloudinary, Stripe

Internship

Techpyro	Web Developer Intern	**May'2023 – Jul'2023**

- Developed and maintained responsive web apps, decreasing load times by 30%.
- Launched user-centric features that improved retention by 25%.
- Collaborated on MERN stack solutions to support scalable deployments.
- Tech Stack: MongoDB, Express.js, React.js, Node.js

Projects

E-learning Platform **Link**

- Developed a full-stack MERN-based e-learning platform using Redux Toolkit, Shadcn UI, and Tailwind CSS.
- Integrated JWT-based role authentication and protected routes, securing 100% of user accounts.
- Built an admin panel for managing courses with real-time create/edit/delete and publish features.
- Integrated Stripe API and webhooks for seamless course enrolment and secure payments.
- Implemented a personalized progress tracker, increasing learner engagement by 40%.
- Enhanced course discovery with an advanced search and filter system, reducing search time by 50%.
- Used Multer and Cloudinary to reduce media storage costs by 30%.
- Designed a responsive UI with light/dark theme support to improve accessibility.

Real-time Chat Application **Link**

- Created a real-time messaging app with MERN, Socket.io, Zustand, and Tailwind CSS.
- Secured communication with JWT-based authentication and protected routes.
- Enabled low-latency real-time messaging and online presence updates.
- Improved performance and responsiveness with optimized state management using Zustand.
- Deployed across platforms with 99.9% uptime and compatibility across 10+ device types.

Personal Portfolio Website **Link**

- Built a responsive personal site using React and Tailwind CSS to showcase projects and achievements.
- Added theme switcher (dark/light mode) using Context API for improved UX.
- Connected a validated contact form with backend integration for direct communication.
- Integrated 6+ social media links and navigation routes, increasing session time by 20%.
- Optimized for SEO and performance; deployed with a custom domain and production-ready build.

Sorting Algorithm Visualizer **Link**

- Developed a sorting visualizer in React to animate Bubble, Selection, Insertion, Merge, and Quick Sort.
- Supported array size selection (5–100 elements) and speed control (1x–5x), improving engagement by 30%.
- Built a clean, responsive UI using Tailwind CSS with intuitive controls.
- Animated sorting steps to demonstrate algorithm efficiency visually.
- Modularized components for easy addition of new algorithms; refactored into 10+ reusable units.

Academic and Extracurricular Achievements

- Achieved All India Rank 84 in NSTSE and qualified for NTSE Stage 1.
- Scored 83% in TCS NQT, demonstrating strong technical proficiency.
- Contributed to the deployment of 2 live full-stack apps during a MERN internship (100+ users).
- Organized monthly coding contests and mentored juniors via the college coding club.
- Represented college at IBM CSR Annual Event 2024 for innovation and leadership.

Positions of Responsibility

Communicode | Head **Sep' 2022 - Jan'2023**

- Led event planning and coordination for coding contests, gaming tournaments, and chess competitions with 150+ participants.
- Launched monthly DSA problem-solving contests, increasing club engagement by 25%.

JNANAGNI | Core Member **Nov'2023**

- Organized 10+ technical events at the college's annual tech fest including coding competitions and workshops.
- Oversaw logistics and execution, attracting 500+ participants and ensuring smooth event flow.