

# Yash Kumar Aggarwal

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## PROFESSIONAL SUMMARY

Final-year B.Tech CSE student with strong foundation in data structures, full-stack web development, and real-time systems using React, Node.js, WebRTC, and MongoDB. Actively seeking SDE or Full Stack roles to apply and grow scalable product engineering skills.

## EDUCATION

### KIET Group of Institutions

*Bachelor of Technology in Computer Science Engineering, 8.85 CGPA*

Ghaziabad, UP

**Nov 2022 - Present**

### Lord Mahavira Academy

*Senior Secondary School, 93%*

Saharanpur, UP

**March 2006 - March 2021**

## PROFESSIONAL EXPERIENCE

### Sachin Agarwal and Associates (Chartered Accountants)

**May 2024 – June 2024**

*Remote (Noida)-Freelance*

- Developed the **official website** for a reputed chartered accountancy firm.
- Collaborated with stakeholders** to define project requirements, iterate on feedback, and deploy the final product within deadline.

### Beyond Food (Clean Snack Brand)

**March 2025 – April 2025**

*Remote (Delhi)-Freelance*

- Developed and optimized the **official e-commerce website** using React, focusing on performance, responsiveness, and clean UI.
- Collaborated with stakeholders to implement product-driven features** and deliver a seamless user experience aligned with the brand's identity.

## POSITIONS OF RESPONSIBILITY

### Technical Head

**May 2024 – June 2024**

*KIET Technical Society (KTS), KIET Group of Institutions*

- Lead a technical **team of 25 developers** to design and deploy innovative solutions for events and workshops
- Oversaw software architecture design, API development, and deployment processes using cloud services.

### Buddy Mentor

**Oct 2024 - Present**

*Team ServiceSphere, KIET Group of Institutions*

- Provided mentorship on coding standards**, version control with Git, and agile collaboration to juniors.
- Serve as a **resource for team members**, offering advice, feedback, and encouragement to help them succeed in their roles.

### Lead Web Development Coordinator

**June 2023 - Nov 2024**

*Kinesis Technical Society (KTS), KIET Group of Institutions*

- Mentored 70+ students** in full-stack development, promoting agile workflows and clean coding practices through code reviews, debugging sessions, and **2+ technical workshops** on REST APIs, React.js, and Node.js.
- Led a project that **increased society website traffic by 30%**, while organizing workshops and guiding peers in scalable and maintainable development approaches.

KIET group of Institutions

- Coordinated event planning and **execution for 200+ participants**, ensuring smooth team collaboration and communication.
- Facilitated **effective communication and collaboration** among team members, optimizing event efficiency and achieving event objectives.

## KEY PROJECTS

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### StudyNotion(An Edtech Platform) | *HTML, CSS, JavaScript, Node.js, Express, MongoDB, Cloudinary*

- Designed a **scalable and secure backend architecture** to accommodate growing user demands and ensure data protection.
- Integrated **interactive elements** such as video lessons, quizzes, and discussion forums to enhance student engagement and learning experiences.
- Developed tools for tracking student performance, providing teachers with insights and personalized feedback to improve educational outcomes.
- **Link:-Live Demo**

### Voxera(A Real-time Communication Website) | *React.js, Node.js, Express, MongoDB, Socket.io, WebRTC*

- Created a WhatsApp clone using React and Vite for the frontend, and Node.js/Express for the backend, delivering seamless **real-time messaging** capabilities.
- **Integrated Socket.IO** for real-time communication, featuring instant messaging, typing indicators, and message read receipts.
- Implemented **user authentication with JWT** and secure login mechanisms, ensuring privacy and data protection for users.

### CodeHive(A Knowledge-Sharing Platform for Developers) | *React.js, Node.js, Express, MongoDB, Socket.io*

- **Developed a full-fledged QnA platform** enabling developers to ask and answer programming-related questions.
- **Implemented a secure backend** with Node.js, Express, and MongoDB for efficient data handling.
- **Integrated authentication**, voting system, tags, and a search functionality for enhanced usability.
- **Link:-Live Demo**

### Kinesis Technical Society (KTS) Website | *React, Node.js, Express, MongoDB, Tailwind CSS*

- **Built a full-stack web app** for Kinesis Technical Society with a responsive frontend and Tailwind CSS styling.
- Developed a **secure Node and Express backend with dynamic APIs**, user authentication, and authorization.
- **Integrated event management features** for creating, updating, and managing society events efficiently.
- **Link:-Live Demo**

### Polycode (Real-Time Collaborative Code Editor) | *React.js, TypeScript, Express.js, Socket.io, MongoDB, Judge0 API* (Currently under development)

- Building a **real-time collaborative code editor** with multi-user live syncing using Socket.io and Monaco Editor.
- Integrating **multi-language code execution via Judge0 API** to run code within the platform.
- Developing a **shared drawing canvas** with fabric.js for visual collaboration during coding sessions.
- Architecting the **app fully in TypeScript** to ensure maintainable and type-safe code.

### More Projects (Live Demos):

- Snake Game | Flappy Bird | Hangman Game

## TECHNICAL SKILLS

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**Programming Languages :** C/C++, Java, JavaScript, TypeScript, HTML/CSS

**Frameworks :** React.js, Next.js, YUI, Express.js, Node.js, Tailwind CSS, Framer Motion , jQuery

**Developer Tools :** VS Code, Git, GitHub

**DataBases :** MongoDB, Oracle, SQL, PostgreSQL, CouchDB

**Cloud Services :** MongoDB Atlas, Cloudinary

**Technologies :** REST APIs, JWT Authentication, Socket.IO, WebRTC, Cloudinary

**Development Practices :** Agile methodologies, Unit testing, Code reviews, Continuous Integration / Deployment (CI/CD)

**Tools :** MongoDB Compass, Postman,

CERTIFICATIONS

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<i>Advance Your Skills in HTML</i>   <i>View Certificate</i>	<i>Sept 2023 - Oct 2023</i>
<i>Socket.IO</i>   <i>View Certificate</i>	<i>Feb 2025 - Mar 2025</i>
<i>CSS Essential Training</i>   <i>View Certificate</i> <i>View Certificate</i>	<i>Sept 2023 - Oct 2023</i>
<i>JavaScript Completion</i>   <i>View Certificate</i>	<i>Sept 2023 - Oct 2023</i>
<i>DBMS Course Master</i>   <i>View Certificate</i>	<i>April 2025 - May 2025</i>
<i>Web Development Course</i>   <i>View Certificate</i>	<i>Sept 2024 - Mar 2025</i>

ACHIEVEMENTS

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- **Finalist** in Hackhound 2.0 and Innotech 3.0, demonstrating exceptional project innovation and technical skills.
- **Solved** over **550 algorithmic and data structure problems** on LeetCode, enhancing proficiency in problem-solving and coding efficiency.
- Actively contributed to **innovative projects** during the Departmental Level Innotech Fest 2023, Innotech Fest 2024, showcasing creativity and collaboration.