

Yash Kumar Aggarwal

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PROFESSIONAL SUMMARY

Motivated Computer Science student with hands-on experience in C/C++, system-level programming, and socket-based real-time applications. Strong foundation in object-oriented design, data structures, and algorithms. Seeking an SDE internship to apply and grow full-stack development and system design 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)

Remote (Noida)-Freelance

May 2024 – June 2024

- 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.

Technical Head

KIET Technical Society (KTS), KIET Group of Institutions

May 2024 – June 2024

- 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

Team ServiceSphere, KIET Group of Institutions

Oct 2024 - Present

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

Lead Web Development Coordinator

Kinesis Technical Society (KTS), KIET Group of Institutions

June 2023 - Nov 2024

- **Mentored 70+ students** in full-stack development, guiding through agile workflows and best coding practices.
- **Organized 5+ technical workshops** focused on REST API design, React.js, and Node.js.
- Conducted **code reviews and debugging sessions**, improving code quality and maintainability across projects.
- Led the development of a project that **increased society website traffic by 30%**.

PR Head: NASA Space App Challenge Ghaziabad(KIET)

KIET group of Institutions

Oct 2024

- 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

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*

- **Developed a full-stack web application** for Kinesis Technical Society, featuring a responsive frontend crafted with React and styled using Tailwind CSS.
- Implemented a **robust backend** with Node.js and Express, effectively managing user data and providing dynamic API endpoints.
- Integrated **user authentication and authorization** to ensure secure access to society resources and events.
- Enabled comprehensive **event management features**, allowing users to create, update, and manage events efficiently.
- **Link:-Live Demo**

Snake Game | *HTML, CSS, JavaScript*

- Developed a **classic arcade game** where players control a snake that grows longer by consuming food while avoiding collisions with walls and itself.
- Designed the game to increment the score with each food item consumed and display the current score on-screen, along with tracking the highest scores achieved.
- **Link:-Live Demo**

Polycode (Real-Time Collaborative Code Editor) | *React.js, TypeScript, Node.js, Express, 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.

PORTFOLIO WEBSITE

Link : <https://portfolio-2-git-main-yash-kumar-aggarwals-projects.vercel.app/>

TECHNICAL SKILLS

Programming Languages : Python, C/C++, Java, JavaScript,TypeScript, HTML/CSS
Frameworks : React.js,Next.js, Express.js, Node.js, Tailwind CSS, Framer Motion
Developer Tools : VS Code, Visual Studio, PyCharm, Git, GitHub
DataBases : MongoDB,Oracle,SQL,PostgreSQL
Cloud Services : MongoDB Atlas, Cloudinary
Libraries : Pandas, NumPy, Matplotlib
Technologies : REST APIs, JWT Authentication, Socket.IO, WebRTC, Cloudinary, MongoDB Atlas
Development Practices : Agile methodologies, Unit testing, Code reviews, Continuous Integration / Deployment (CI/CD)
Tools : MongoDB Compass, Postman, Power BI

CERTIFICATIONS

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

ACHIEVEMENTS

- **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.