

# PARTH KUMAR SINGH

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## EDUCATION

**Indian Institute of Information Technology Jabalpur**

*B.Tech in Computer Science and Engineering*

Jabalpur, MP

Nov. 2022 – May 2026

## TECHNICAL SKILLS

**Languages:** C++, C, Javascript, TypeScript, HTML/CSS, Python

**Frameworks:** ReactJS, NodeJS, ExpressJS, NextJS, TailwindCSS, Material-UI, RestAPI, GoogleCloud, Postman, RapidAPI

**Developer Tools:** Git, Docker, GitHub, VS Code, Linux, AWS

**Databases:** MySQL, MongoDB, Firebase, PostgreSQL

**CourseWork:** Operating System, DBMS, Computer Network, OOPS, Data Structure, Algorithms

## PROJECTS

**CollegeConnect** | *React, Node.js, Socket.io, Prisma, MySQL*

Nov 2023 – Present

- **Real-time Communication Platform** Developed a full-stack real-time communication platform for college clubs and groups.
- **Features** Integrated Socket.io for messaging, WebRTC for audio/video calls, and @tanstack/query for efficient message loading.
- **UI Design** Designed a responsive UI using TailwindCSS and ShadcnUI with light/dark mode support.
- **Server Customization** Implemented server creation, customization, and a unique invite system for seamless connectivity.
- **Security** Ensured a seamless experience with Websocket fallback using polling and alerts.

**StreamHub** | *Next.js 14, RTMP, WHIP, OBS, Socket.io, MySQL*

Jan 2024 - Present

- **Modern Streaming Platform** Leading the development of StreamHub, a modern streaming platform inspired by Twitch.
- **Key Features** Real-time chat, live viewer count, and a dynamic streamer dashboard for enhanced engagement.
- **UI Design** Designing an intuitive and visually appealing user interface for an immersive streaming experience.
- **Optimization** Optimizing performance through SSR and MySQL best practices.
- **Community Management** Implementing features like unique chat colors, following system, and blocking system.

**NextAI Platform** | *Next.js 13, React, Tailwind, Prisma, MySQL, Clerk, Open, Replicate AI*

Oct 23 - Present

- **User-Centric AI SaaS Platform** Developed a user-centric AI SaaS platform using Next.js 13, integrating Stripe for billing processes.
- **AI Tools** Included five AI tools: Conversation AI, Code Generation AI, Image Generation AI, Music Generation AI, and Video Generation AI.
- **UI Development** Developed a responsive UI with Tailwind and React, ensuring an optimal user experience.
- **Marketing and Onboarding** Created a landing page for effective marketing and user onboarding.
- **Security and Support** Utilized Clerk for secure authentication, integrated Crisp for error handling, and customer support.

## AWARDS AND ACHIEVEMENTS

**Smart India Hackathon 2023 Finalist**

December 2023

*AICTE*

- **Recognized Innovation** Selected among the top 1500 teams out of 42,000 in the Smart India Hackathon 2023, showcasing innovation and problem-solving skills.
- **Jal Shakti Challenge** Part of the top 5 teams, developing an intelligent chatbot for the Namami Gange website, contributing to environmental conservation efforts.
- **Impactful Solutions** Contributed to real-world challenges in national security and environmental conservation, demonstrating technological aptitude and proactive vulnerability management.

## Google Cloud Certified - Professional Cloud

*Google Cloud*

- **Google Cloud Certified** Successfully completed the Professional Cloud [Role] certification, showcasing expertise in designing, developing, and managing scalable solutions on Google Cloud Platform (GCP).
- **Key Technologies** Acquired in-depth knowledge of essential GCP services and technologies.
- **Hands-on Experience** Applied cloud solutions in real-world scenarios, ensuring optimal performance, security, and cost-effectiveness.

## Hacktoberfest Open Source Contributions

*DigitalOcean*

*October 2023*

- **Active Participation** Actively participated in Hacktoberfest, contributing to the open-source community by making 7 pull requests to various projects.
- **Diverse Contributions** Made diverse contributions across different repositories, addressing issues, adding features, and improving documentation.
- **Collaborative Development** Engaged in collaborative development, fostering a culture of open-source contribution and learning.

## Google Summer of Code (GSoC) Contributions

*GSoC*

*Present*

- **GSoC Participation** Participated in Google Summer of Code, contributing to the program by making 2-3 pull requests to enhance open-source projects.
- **Project Enhancements** Contributed to project enhancements, including bug fixes, feature implementations, and code optimizations.
- **Community Involvement** Engaged with the open-source community, collaborating with mentors and fellow contributors to achieve project goals.
- **Ongoing Contributions to Zulip** Currently contributing to Zulip, an open-source project, and have made 2-3 pull requests to enhance its functionality.

**CodeChef 3-Star Coder** Achieved a stellar 3-star coder status with an impressive rating of 1668. Secured a noteworthy global rank of 110 in CodeChef 102 Starters.

**Codeforces Pupil** Consistently progressed as a diligent Pupil coder on Codeforces, demonstrating sustained participation and growth.

## POSITION OF RESPONSIBILITY

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### Programming Mentor

*IITDMJ*

*September 2023- Present*

- **Guided and Mentored Aspiring Coders** Provided guidance and mentorship to over 100 aspiring coders, sharing knowledge and fostering their skills in the coding realm.
- **Knowledge Sharing** Organized and conducted knowledge-sharing sessions to enhance the coding capabilities of mentees, ensuring their continuous learning and growth.

### Bitbyte Coding Club

*IITDMJ*

*January 2024- Present*

- **Dedicated Core Team Member** Served as a dedicated core team member in Bitbyte Coding Club, actively contributing to shaping the club's vibrant coding community.
- **Community Building** Initiated and organized coding competitions, workshops, and collaborative projects, fostering a dynamic and engaging coding environment within the club.

### Hackbyte Volunteering

*IITDMJ*

*April 2023*

- **Event Organization** Contributed as a volunteer in Hackbyte, a thrilling coding hackathon, gaining valuable experience in event organization and coordination.
- **Participant Engagement** Played a key role in engaging participants, ensuring a seamless and enjoyable experience during the coding hackathon.