



Rahul Kumar

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EDUCATION

Motihari College of Engineering, Motihari
Bachelor of Technology in Computer Science and Engineering

Dec 2021 - Aug 2025
CGPA: 8.48/10

TECHNICAL SKILLS

- **Operating Systems:** Windows, Linux
- **Languages:** C/C++, JavaScript, TypeScript, Java, Python, HTML, CSS
- **Databases:** MySQL, MongoDB
- **Frameworks/Libraries:** React.js, Node.js, Next.js, FastAPI
- **Tools/Technologies:** Visual Studio Code, Git, GitHub, Firebase

INTERNSHIPS

Full Stack Developer Intern

Feb 2024 - Apr 2024

GANGAKOSHI AGRITECH PVT. LTD.

- Engineered a **multilingual Full Stack responsive web application** with a *Firebase* Back End and secure authentication using next-auth.
- Implemented *Server-Side Rendering* (SSR) to enhance *SEO* performance.
- Added theme support, enabling **3-mode selection**. *Automatic synchronization* with the user's system theme or manual selection.
- Integrated machine learning APIs for **prediction of 23+ Crop and Fertilizer** based on soil test reports.
- Built the Margdarshan section for sharing agricultural tips, complete with an **Admin dashboard** for efficient management.

React.js Intern

Feb 2023 - Apr 2023

ATPLC

- Created a responsive **Front End web application** with a *Student Dashboard* supporting **157+ registered students**, enabling them to complete training, manage tasks, and receive certificates upon meeting specific criteria.
- Integrated a *Django API* for efficient data retrieval from backend servers.
- Enhanced application performance by implementing *code splitting* and optimizing the virtual DOM, leading to faster load times and a smoother user experience.
- Integrated the **RazorPay** payment gateway for seamless course purchases.

PROJECTS

Text to Multilingual Reel Conversion

April 2024 - Feb 2025

| TIH-IOT Chanakya Fellowship

[Code](#) 

- Collaborated with a team of *5 members* to convert *pib.gov.in* press releases into reels in **13 Indian regional languages**.
- Developed automated translation API with **FastAPI** to translate content into a target language.
- Utilized Google Image Search and diffusion model based **image generation** to generate related images for video creation.
- Applied **Multithreading** to reduce the average video generation time for press releases from *10 minutes to 4.7 minutes*.
- Designed the *user interface in NEXT.JS* and *integrated* it with the APIs.

ZERO ONE Coding Club

| Next.js | HTML | Tailwind CSS | JavaScript | MongoDB

[Code](#) 

- Developed and launched the *ZERO ONE Coding Club website* for the college, offering a comprehensive platform for students to access coding resources, events, contests, gallery content, and **practice coding**.
- Created an **Admin panel** for managing events, students, resources, contests, galleries, and student certificates.
- Implemented **User dashboard** and **Problem of the Day** using web-based *Code compiler* supporting four languages: *C/C++*, *Java*, *Python*, and *JavaScript*.
- Developed a complete **Certificate generation and Verification** feature with customizable templates.

POSITION OF RESPONSIBILITY

ZERO ONE Coding Club

Aug 2023 - May 2025

| Club Lead and Founder

- Organized **3+ college-level** and **1 state-level** coding contest, engaging participants from engineering colleges across *Bihar Engineering University*.
- Conducted a 7-day workshop on full-stack development using the **MERN stack**.