

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* Secure back-end authentication using next-auth.
- Implemented **Server-Side Rendering** (SSR) to improve **SEO** and site performance.
- Added theme support, enabling **3 mode selection**. *Automatic synchronization* with the user 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* that supports **157 + registered students**, allowing them to complete training, manage tasks and receive certificates after meeting specific criteria.
- Integrated a **Django API** for efficient data retrieval from back-end 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

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 automating contest management, question management, and student management, significantly reducing organizer workload.
- 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.

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 in reels in **13 Indian regional languages**.
- Developed automated translation API with **FastAPI** to translate content into a target language.
- Utilized Google Image Search and the 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.

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, involving participants from engineering colleges across *Bihar Engineering University*.
- Conducted a 7-day workshop on full-stack development using the **MERN stack**.