






RAHUL KUMAR

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OBJECTIVE

Highly motivated Full Stack Developer with expertise in building dynamic & responsive web applications using the MERN stack. Recent graduate with a Master's degree in Computer Application (MCA). Proficient in **JavaScript**, **React.js**, **Node.js**, and **MongoDB**. Looking to contribute my technical skills and experience in a full-stack development role.

EDUCATION

Masters of Computer Application Birla Institute of Technology, Mesra, Ranchi	2022-2024 CGPA: 8.30
Bachelors of Computer Application Lalit Narayan Institute Of Economic Development And Social Changes, Patna	2018-2021 Grade: 73.45%

TECHNICAL SKILLS

Language	C++, JavaScript, Python
Frontend	React, Redux, Tailwind CSS, Bootstrap, HTML, CSS
Database	MongoDB, MySQL
Tools/Cloud	Git, GitHub, AWS, Vite, Docker, Postman, RESTful API, Vercel
Coursework	DSA, Analysis of Algorithms, OOPs, OS, DBMS
Soft Skills	Problem-Solving, Leadership, Documentation, Communication, Teamwork

PROJECTS

NoteKeeper — <i>Full Stack Project</i> (Live) (Code)	Sep 2024 - Oct 2024
<ul style="list-style-type: none">Developed a modern note management application, using a MERN Stack that allows users to create, edit, pin, search and organize notes securely.Implemented user authentication with JWT, enabling secure user registration and login functionalities.Developed RESTful APIs for note management, including CRUD operations, ensuring efficient data handling.Utilized Redux for state management, improving performance and providing a seamless user experience.Created a responsive frontend with Tailwind CSS, ensuring compatibility across various devices.Integrated MongoDB for data storage, utilizing Mongoose for schema definition and model management.Employed best practices in error handling and debugging to ensure a robust and user-friendly application.Technologies Used: Node.js, Express.js, MongoDB, Mongoose, JWT, React.js, Tailwind CSS, Redux	
MediaFusion — <i>Backend Services</i> (Code)	July 2024 - Sep 2024
<ul style="list-style-type: none">Developed a backend service using Node.js, Express, and MongoDB to support a scalable and modular video streaming and social media management architecture. The system provides robust user authentication, tweet management, video uploads, subscriptions, likes, comments, playlist features, and a dedicated admin dashboard.Implemented RESTful API, centralized error handling, and middleware for secure and efficient routing.Integrated the advanced Mongoose models for data management and provided flexible data operations.Developed secure endpoints for user registration, login, JWT-based authentication, and profile management.Reduced average API response time by 40% using efficient query techniques and middleware optimizations.Technologies Used: Node.js, Express.js, MongoDB, Mongoose, JWT, CORS, Cookie-Parser, Multer	

Blogify [\(Code\)](#)

May 2024 - July 2024

- Developed a blog management application using **React, Redux, and Appwrite**, allowing users to **create, edit, manage, and publish blog posts** seamlessly. The project emphasizes scalability, user-friendly design, and efficient content management.
- Technologies Used: **React, Redux, Appwrite, Tailwind CSS, React Router**

AI Virtual Voice Assistant — *Desktop Application* [\(Code\)](#)

Feb 2024 - May 2024

- Developed an AI-driven virtual voice assistant capable of understanding and responding to user commands through **Natural Language Processing (NLP), Machine Learning, and Neural Networks**.
- Integrated **speech recognition, natural language understanding, and text-to-speech** technologies to create a seamless, interactive user experience.
- The assistant was designed to manage schedules, set reminders, search the web, control smart devices, and provide personalized responses based on user preferences.
- Technologies Used: **Python, SpeechRecognition, Google Text-to-Speech (TTS), Git**

N-Queens Solver [\(Live\)](#) [\(Code\)](#)

Dec 2023

- Developed a web-based application to solve and **visually represent the N-Queens** problem, which involves placing N queens on an N×N chessboard so that no two queens threaten each other.
- Technologies Used: **HTML, CSS, JavaScript**

Steganography (Image Processing) [\(Live\)](#) [\(Code\)](#)

Oct 2023 - Nov 2023

- Built a tool using a hybrid algorithm of Cryptography **Advanced Encryption Standard (AES)** and **Least Significant Bit (LSB)** to **hide and retrieve information within images**, ensuring the safety and security of long-distance communication.
- A message is encrypted in the image, sent to the receiver and decrypted again.
- Technologies Used: **HTML, CSS, JavaScript**

CERTIFICATION

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| • Introduction to Devops Tools, SimpliLearn SkillUp | Oct 2024 |
| • Data Structures & Algorithms Master Course, CODE HELP | Sep 2024 |
| • Getting Started with NodeJS, SimpliLearn SkillUp | Sep 2024 |
| • Software Development Trainee, AMCAT | Dec 2023 |
| • Web Development Bootcamp, Udemy | Aug 2023 |
| • Web Development Training, Internshala | May 2021 |
| • Ethical Hacking - Workshop, IIT Patna | Aug 2019 |

ACHIEVEMENT

- **LeetCode** - 150 Challenge