Rahul Kumar

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OBJECTIVE

Highly motivated Computer Science graduate with a strong foundation in software development and a passion for problem-solving. Recent graduate with a Master's degree in Computer Application(MCA). I am eager to secure an opportunity to develop skills in systems software further and contribute to innovative projects.

EDUCATION

• Birla Institute Of Technology, Mesra

Aug 2022 - May 2024

Master of Computer Application

Ranchi

• GPA: **8.3/10**

• Lalit Narayan Mishra Institute Of Economic Development And Social Changes

Aug 2018 - Aug 2021

Bachelor Of Computer Application

Patna

o Grade: 73.45%

SKILLS

- Programming Languages: JavaScript, Python, C++
- Web Technologies: React.js, Node.js, Express.js, Tailwind CSS, HTML, CSS
- Database Systems: MongoDB, My SQL, GraphQL
- Cloud & Tools: AWS, Linux, Docker, Kubernetes, Git, GitHub
- Coursework: DSA, Analysis of Algorithms, OOPs, OS, DBMS
- Soft Skills: Problem-Solving, Leadership, Documentation, Communication, Teamwork

PROJECTS

• NoteKeeper Sep 2024 - Oct 2024

Tools: React.js, Node.js, Express.js, MongoDB, Mongoose, JWT, Tailwind CSS, Redux



- Developed a modern note management application using the 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.

• AI Virtual Voice Assistant Feb 2024 - May 2024

Tools:Python, SpeechRecognition, Google Text-to-Speech (TTS), NumPy, Pytorch

- 1v1uy 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 for a seamless, interactive user experience.
- Designed the assistant to manage schedules, set reminders, search the web, generate image, control smart devices, and provide personalized responses based on user preferences

• N-Queens Solver

Tools:HTML, CSS, JavaScript

Dec 2023

• Developed an algorithmic solution to solve the N-Queen problem, implementing a backtracking approach to place

- N queens on an NxN chessboard such that no two queens threaten each other.

 Implemented a visual board using JavaScript with an efficient search mechanism to display all possible valid
- Optimized the solution to handle different board sizes dynamically.

• Steganography (Image Processing)

Oct 2023 - Nov 2023

Tools:HTML, CSS, JavaScript

solutions.

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- 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.
- Encrypted messages within images, transmitted them securely, and allowed decryption on the receiver's end.

CERTIFICATIONS

• 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

ADDITIONAL INFORMATION

LeetCode: 150 Challenge **Languages:** English (Proficient), Hindi (Native)