Ajay Nayak G

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# Summary

Dedicated and detail-oriented ISE student with a strong focus on problem-solving, logical thinking, and optimizing systems for maximum efficiency. Currently learning full-stack development, with hands-on experience in MERN Stack (MongoDB, Express.js, React, Node.js), Socket.io, and data structures. Proficient in Java, Python, and C.

Beyond coding, I bring the discipline of a karate black belt, the strategic thinking of a former football team captain, the leadership experience of a band major, and the creative problem-solving mindset of an artist. Passionate about building impactful solutions and continuously improving technical skills. Strong interest in business and entrepreneurship, aiming to create scalable, user-centric applications that solve real-world challenges. Known for an adaptable mindset, trust, honesty, and the ability to approach challenges with a unique perspective, ensuring high-quality results in every project.

# Education

## **Current – 3rd Year**

### Information Science Engineering (ISE) | M S Ramaiah Institute of Technology (MSRIT)

CGPA - 9.06 GPA

## **12th**

### PCMC (Science) | Jain Heritage School

Percentage - 93%

## **10th**

### Jain Heritage School

Percentage - 88%

# Projects

**ChatApp using MERN stack**

## <https://github.com/anayakgit/ChatApp>

A real time chat application built with the MERN stack, featuring instant messaging, online status tracking, and media uploads.

* **Tech Stack**: Node.js, Vite, React, Express, MongoDB, Mongoose, Socket.io, TailwindCSS
* **Authentication**: JWT, bcrypt, cookie-parser
* **Media Handling**: Cloudinary integration
* **API Testing**: Postman
* **Error Handling**: Implemented on both frontend and backend

# Projects

### **Movie Explorer**

DEC 2024 - JAN 2025

## <https://github.com/anayakgit/MovieExplorer>

## MovieExplorer is a web app that helps users search for movies, explore trending titles, and view detailed information like genres, ratings, and release dates. It offers an easy-to-use interface for discovering and learning more about your favourite films.

## Developed a dynamic web-based application for searching and exploring trending and popular movies.

## Implemented a Trie data structure for efficient autocomplete search.

## Integrated The Movie Database (TMDb) API to fetch real-time movie details.

## Optimized search performance by storing trending movies in a Trie for faster access.

**Algorithm Playground**

## Oct 2024 - Jan 2025

## <https://github.com/anayakgit/SE_Project>

## The Algorithm Playground is an interactive platform featuring multiple algorithm visualizations, including sorting, searching, and pathfinding algorithms. Users can engage with each algorithm step-by-step, observing real-time execution and transitions. The platform aims to simplify complex concepts and enhance learning through visual and interactive experiences.

## Developed interactive visualizations for various algorithms, including sorting, searching, and pathfinding, using HTML, CSS, and JavaScript.

## Worked on the frontend to create responsive, user-friendly interfaces and helped with backend integration for real-time algorithm execution.

## Implemented event-driven programming for user interaction, enabling step-by-step control of algorithms.

## Focused on problem-solving to break down complex algorithms and make them accessible for educational purposes.

# Skills (Technical)

## Algorithm, API, API Integration, API Testing, CSS, Data Structures, Debugging, Express.js, Git, GitHub, HTML, JavaScript, JWT, MongoDB, Mongoose, Node.js, Postman, Socket.io, System Testing, TailwindCSS, WebSockets, Java, Java 17, OOPS, Python, C, Flutter, Vite, React, Dotenv, Bcrypt, Cookie-Parser, Cloudinary.

# Licenses and Certifications

1. Algorithms Part-1 (Coursera)
2. Algorithms Part-2 (Coursera)
3. Web Developer Bootcamp — Current (Udemy)
4. Java Masterclass — Current (Udemy)
5. How to Build Your Own ChatBot using Python? (Great Learning)
6. Master Cognitive Biases and Improve Your Critical Thinking (Udemy)

# Key Achievements

### **SAP Hackathon**

## Being shortlisted among the top projects in the SAP Hackathon showcases our ability to develop innovative solutions under pressure. The project focused on localization—leveraging resources from the nearby community to enhance efficiency. While it didn’t make it to the final round, it demonstrated our critical thinking, strong ideation, and teamwork. We successfully developed the frontend, further refining our technical and collaborative skills.

# Strengths

## Attitude over Skill mindset

## Curiousness

## Calm under Pressure

## Problem Solving -Passionate about finding unconventional yet effective solutions to complex challenges.

## **Personal Achievements & Extracurricular Activities**

## **MMA Fighter** and **Karate Black Belt** – Trained in mixed martial arts, Achieved black belt level, demonstrating discipline and perseverance.

## **Sketch Artist** – Skilled in detailed artwork and creative illustration.

## **Ex-Football Team Captain** – Led the school football team, developing leadership and teamwork skills.

## **Band Major in School** – Directed and coordinated the school band, showcasing leadership and discipline.