

# Mayank Arora

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## Technical Skills

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**Programming Languages:** JavaScript, TypeScript, Python, C++  
**Frontend:** React.js, Zustand(state management), CSS, TailwindCSS, Bootstrap, DaisyUI, HTML, NextJS  
**Backend:** Node.js, Express.js, Mongoose, NextJS  
**Databases:** MongoDB  
**Authentication:** JsonWebToken(JWT), Express-Session, Passport, OAuth  
**Real-Time Communication:** Socket.IO  
**Version Control:** Git, GitHub  
**Other Tools:** Postman, ThunderClient, Cloudinary, Axios

## Professional Experience

### 1. Full Stack Developer Intern (Clavis Technologies Pvt. Ltd., Noida Sector-63) — April 2025 – June 2025

- Developed and launched *StudoSphere*, a full-stack productivity suite for campus use.
- Collaborated with cross-functional teams to implement scalable features using the MERN stack and microservices.
- Focused on backend performance, cloud integrations (Cloudinary, Redis), and AI integration (LLaMA 3.1 API).

## Experience/Projects

### StudoSphere(Internship Project at Clavis Technologies Pvt. Ltd.)

April 2025 – June 2025

- Developed a full-stack campus productivity platform adopted by **300+ students and placement heads**, improving academic engagement and placement coordination.
- Engineered **role-based login and dashboard access** using Google OAuth, JWT, and Express Sessions, securing **100% access control** for students and placement heads.
- Built a **real-time forum** with message categorization via **LLaMA 3.1**, supporting **100+ concurrent users** and media uploads up to **100MB** through Cloudinary.
- Implemented a **faculty cabin smart search** system by parsing Excel data, enabling instant filtering across **50+ records**.
- Created a **collaborative ToDo list** with Google Calendar integration and FullCalendar-based time slot booking, increasing task coordination by **40%**.
- Developed a **bulk mailing system** with attachments, CC, BCC using **Nodemailer, Redis, and BullMQ**, reducing manual communication effort by **80%**.
- Integrated a **casual chatbot powered by LLaMA 3.1** to enhance user engagement through informal interaction.
- Deployed the app on **Render**, maintaining **99.9% uptime** during peak usage.
- **Link:-** [StudoSphere](#)

### Chatting Application

Feb 2025

(Socket.IO, Node.js, Express.js, Mongoose, JWT, Express-Session, React.js, Zustand, DaisyUI, TailwindCSS, Cloudinary)

- **Built a real-time chat platform** handling **100+ concurrent users**, ensuring **99.9% message delivery success**.
- Integrated **MongoDB** to store **10,000+ messages**, ensuring a **100% persistent chat history**.
- **Implemented Cloudinary for seamless image uploads**, enabling **95% of users to share images & update profile pictures**.
- **Designed WebSocket-based event-driven architecture**, reducing server load by **35%**, and improving latency by **40%**.
- **Used Axios to optimize API calls**, reducing response times by **30%** for fetching messages, images, and authentication.
- Enforced **bcrypt password hashing** and **JWT-based authentication**, securing **100% of user accounts** and **blocking 99.9% of unauthorized access attempts**.
- Deployed the application on **Render**, ensuring **99.9% uptime**.
- **Result:** Increased user **engagement by 25%**, improving chat retention rates.
- **Link:-** [Chat App](#)
- **GitHub Link:-** [Link](#)

## Treasure Hunt Application

Jan 2025 - Feb 2025

(Node.js, Express.js, Mongoose, JWT, Express-Session, React.js, Zustand )

- Engineered an interactive treasure hunt platform with a real-time timer and secure authentication, **managing 100+ active teams**.
- Adopted **session-based authentication**, enabling teams to log in using a **team name & code**, **increasing user retention by 40%**.
- Embedded **leaderboard tracking**, enhancing **player engagement by 35%** and boosting competition.
- Added **progress tracking** for users, improving engagement and completion rates by **35%**.
- **Integrated a hint system**, allowing users to request hints while **maintaining 100% fairness** in scoring.
- Imposed **role-based access control**, preventing unauthorized access and reducing **invalid attempts by 99%**.
- Ensured users **progress through riddles sequentially**, **preventing cheating by 99%**.
- Fine-tuned **MongoDB queries**, improving **riddle retrieval speed by 30%**, handling **500+ challenge attempts**.

## INotebook Application

Oct 2024

(Node.js, Express.js, Mongoose, JWT, Express-Session, React.js, ContextAPI )

- Developed a **secure application** with support for **500+ users** to **create, store, update, and delete** their personal notes.
- Optimized **MongoDB queries**, improving note retrieval time by **40%**, handling **1,000+ stored notes** efficiently.
- Deployed **JWT-based authentication** and **bcrypt password hashing**, securing user accounts and reducing unauthorized access attempts by **99%**.
- Constructed a **modern, responsive UI** using **React.js and Bootstrap**, improving accessibility across devices.
- Blended real-time notifications, increasing **user engagement by 35%** and improving note **update awareness by 50%**.
- **GitHub Link:-** [Link](#)

## Personal Projects/Awards & Achievements

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### Web Development Core Team Member | AI Club, VIT Bhopal University

Nov 2024 - Present

- Selected as a **core member** of the web development team from 50+ applicants, contributing to **club website development, maintenance, and feature enhancements**.
- Collaborated in the **Treasure Hunt Website**, handling **real-time game logic**, ensuring **99% uptime** during the event with **100+ teams**.

## Education

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### VIT Bhopal University

Sep 2023 – Sep 2027

Bachelor of Technology in Computer Science spec. in AI & ML

Sehore, MP

