Rohit Jaliminchi

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Education

PDPM IIITDM Jabalpur **Nov. 2022 – Jun 2026**
Bachelor of Science in Electronics and Communication Engineering *Jabalpur, Madhya Pradesh*

Technical Skills

Languages: Python, Java, C++, HTML/CSS, JavaScript, SQL,MATLAB
Frontend Technologies: React.js
Backend Technologies: Node.js, Express.js, GraphQL
Database Systems: MongoDB, MySQL
Developer Tools: VS Code, Git, GitHub, Postman, Vercel, Windows, Ubuntu, Kali Linux

Relevant Coursework

- Data Structures
- Google Cybersecurity Certificate by Coursera
- Database Management
- Algorithms Analysis
- Operating System
- Computer Architecture
- Computer Networks
- Digital Signal Processing
- Artificial Intelligence
- Ethical Hacking

Projects

CineApp | *React.Js, Node.js, GraphQL(Apollo client), REST API (TMDB Integration), MongoDB*

- Developed a full-stack movie discovery web application with a **React.js frontend** and **GraphQL backend**, leveraging Apollo Client for **efficient data management.**
- Integrated TMDB REST API to provide users with real-time, up-to-date movie information.
- Implemented user **authentication and authorization**, allowing users to securely save movies for "watch later" and manage personal watchlists.
- Enabled social discovery by allowing users to view and interact with other users' saved watchlists.
- Designed and managed a **scalable MongoDB database** for **efficient storage and retrieval of user, movie, and watchlist data.**

LinkMee | *MongoDB, ExpressJs, ReactJs, NodeJs*

- Built a full-stack web app enabling users to **create and manage personalized link-in-bio pages**, with a responsive React.js frontend and RESTful Node.js backend.
- Implemented secure user authentication with JWT and managed user profiles and links using MongoDB for efficient, reliable data storage.
- Focused on **modular code structure**, **strong security practices,** and **seamless user experience across devices**.

Drowsiness Detection System | *OpenCV, Dlib's 68 facial landmark detector, NumPy, Imutils and Arduino*

- Developed an AI-powered system using **OpenCV** and **Dlib's 68 facial landmark detector** to monitor driver alertness and detect signs of drowsiness in real-time.
- Utilized **Eye Aspect Ratio (EAR)** calculations to accurately detect eye closure duration, triggering immediate physical alerts via Arduino to prevent accidents.
- Addressed critical challenges in driver safety and security, providing a robust solution for preventing fatigue-related risks, **leveraging advanced computer vision and IoT technologies.**

Experience

Developed a secure USB device **September 2024-April 2025**

- Developed a secure USB storage solution with software-based AES-256 encryption for secure data access.
- Designed and implemented a **cross-platform user interface in Qt** for Python to manage user authentication and device encryption.
- Optimized the software stack for performance and security through rigorous testing and iteration.

Leadership / Extracurricular

- Collaborated as an integral member of my **college racing team**, demonstrating strong teamwork and problem-solving skills in a high-pressure, engineering-driven environment.
- Solved **450+** coding challenges on LeetCode, enhancing my problem-solving skills and proficiency in data structures and algorithms.