

BTech	Information Technology
Gender	Male
DOB	14/09/2001

ACADEMICS

Examination	University	Institute	Year	Grade
Graduation	Rajasthan Technical University	Arya college of Engineering and IT	2020-24	8.67 CGPA

KEY PROJECTS

Local Area Teacher Interaction Platform: - ( <https://thehacktech.vercel.app> ) (Feb 24 - May24)

**Description:** Spearheaded the development of a sophisticated MERN stack web application enabling localized teacher-student interaction through **pin code-based** searches, comprehensive profiles, and video demos.

**Key Contributions:**

- Frontend Development:** Architected a user-centric frontend using **React.js**, ensuring seamless navigation and optimal user experience. Managed global state with **React-Redux** and styled the application using Tailwind CSS for **responsive design**. Handled HTTP requests and API interactions using **Axios**, and utilized React **hooks** (useState, useEffect, useDispatch, useSelector, useNavigate etc) for specific functionalities
- Backend Development:** Engineered robust backend functionalities with **Node.js** and Express.js, facilitating secure and efficient server operations. Employed **Nodemon** for real-time server updates and tested APIs using **Postman**.
- Database Management:** Implemented Leveraged **MongoDB** for efficient storage and retrieval of user profiles and communication logs. Integrated **Cloudinary** for managing video data, enhancing storage capabilities.
- Security Measures:** Implemented secure user authentication and authorization mechanisms using **JWT**, with session management via **cookies** and password hashing using **Bcrypt**. Implemented Enhanced security through OTP-based user verification using **OTP Generator**, and email notifications via **Nodemailer**. Used **crypto-random-string** to generate secure tokens for various functionalities, ensuring data integrity and security.
- Additional Features:** Developed advanced search filters to improve course discovery Ensured adherence to industry best practices for data security and robust performance under varying conditions.

Course-Preneur: Ed-Tech Project: - ( <https://coursepreneur.vercel.app> ) (Aug 23 - Dec 23)

**Description:** Course-Preneur is an ed-tech platform developed using the MERN stack. This platform enables users to create, consume, and rate educational content, and provides instructors with comprehensive tools to create, manage, and showcase their courses

**Key Contributions:**

- Frontend Development:** Developed the front end using ReactJS. Utilized **Redux** for efficient state management and Redux **Thunk** for asynchronous operations. Implemented **React-Router** for seamless navigation and protected routes for secure access. Used **Axios** for data communication with APIs. Employed lazy loading and React **hooks**. Implemented protected routes for user authentication and authorization. Designed a comprehensive dashboard using **react-chartjs-2** and Chart.js for visualizing income, student statistics, and course sales. Integrated a user **rating system** using react-rating-stars-component. Utilized react-super-responsive-table for displaying data tables. Integrated **Swiper** for an interactive course showcase carousel.
- Backend Development:** Implemented using NodeJS and ExpressJS, Integrated **Razorpay** and **Webhook** for secure payment processing, confirmations and updates. Developed middleware for request validation. Integrated **Nodemailer** for sending automated email notifications.
- Database Management:** Use **MongoDB** for efficient storage and retrieval of user profiles and communication logs. Integrated **Cloudinary** for managing video data and enhancing storage capabilities.
- Security Measures:** Implemented secure token-based authentication using **JWT**, with session management via **cookies** and Employed **Bcrypt** for password hashing. Enhanced security through OTP-based verification using **OTP-Generator** and email notifications via **Nodemailer**. Developed Razorpay integration for a secure payment gateway, ensuring encrypted transaction handling.

TECHNICAL SKILLS

Language:	C++   Javascript
Front End:	HTML   CSS   Javascript   React.js   Tailwind CSS   Figma
Back End:	Node.js   Express.js   Mongoose   Nodemon
Database:	Mongo DB
Tools:	VS-Code   Postman   Git   Github   Version Control   Browser Developer Tool

CORE SKILLS

- Object-Oriented programming System
- Data Structure & Algorithms
- Computer Networking
- Database Management system
- Operating System

OTHER ACTIVITIES

- Certified for **research paper** in resolving the issue of "Callback Hell" in JavaScript through the utilization of Promise and Async-Await mechanisms in **International Journal** of Research Publication ( [research paper](#) )
- Researched and implemented strategies to enhance code readability, maintainability, and performance in asynchronous JavaScript programming paradigms. ( [certificate](#) )
- Competitive Programming:**  
LeetCode: Completed 100+ questions, demonstrating proficiency in problem-solving and algorithmic thinking. ( [Leetcode Acc.](#) )  
CodeChef: Achieved rating of 1000+, showcasing coding skills and problem-solving ability in competitive programming ( [Codechef Acc.](#) )