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| 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 |

WORK EXPERIENCE

Local Area Teacher Interaction Platform: - (self-made) ( <https://thehacktech.vercel.app> ) (Jan 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: - (self-made) ( <https://coursepreneur.vercel.app> ) (Aug 23 - Dec 23)

**Description:** Course-Preneur is an ed-tech platform developed using the MERN stack. It facilitates easy creation, access, and rating of educational content, while offering robust tools for effective course management and presentation.

**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   Vercel |

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.](#) )