

EDUCATION

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| BS+MS Biotechnology | Indian Institute of Technology, Madras | 7.17/10 | 2025 |
| XII (Sr. Secondary) CBSE | Vidyashram Public School, Kota | 85.2 % | 2019 |
| X (Secondary) CBSE | Vidyashram Public School, Kota | 85.5 % | 2017 |

PROFESSIONAL EXPERIENCE

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| Matterize (Full-stack Intern) | Matterize helps turn complex scientific concepts into engaging, accessible 3D animations and simulations. |
| | <ul style="list-style-type: none">Created a dynamic MERN-stack dashboard, significantly improving operational tracking efficiency by 40%Streamlined RESTful API processes, reducing latency by 20% and improving overall system efficiencyAutomated routine API testing workflows using Postman, drastically cutting debugging cycles by 30% |

RELEVANT PROJECTS

1. E-Commerce Website – Full-stack Web Application**Tech Stack: React (Vite), Node.js, Express, MongoDB, JWT, Tailwind CSS, DaisyUI, Stripe API, zustand**

- Created **RESTful API** routes for authentication, product, cart, coupon, and payment features.
- Integrated **Stripe API** to enable secure, seamless and efficient online payment processing.
- Learned and implemented **JWT access & refresh tokens** for authentication and authorization.
- Implemented **zustand** state management library and to share global state across the application.

2. Twitter-Clone – Full-stack Web Application**Tech Stack: React (Vite), Node.js, Express, MongoDB, JWT, Cloudinary, Tailwind CSS, DaisyUI, Cookies**

- Built **RESTful API** routes and controllers for authentication, users, posts, and notifications.
- Implemented **JWT-based authentication** with **cookies** and middleware for route protection.
- Optimized** data fetching switching to **React Query caching**, reducing feed load time by **~75%**.
- Integrated Cloudinary for secure and efficient image upload and **DaisyUI** for better responsive UI.
- Enabled social features like **following users**, **viewing suggestions**, and multi-user interaction.

3. Gmail Clone – Full-stack Web Application**Tech Stack: React, Node.js, Express, MongoDB, Mongoose, JWT, Material UI, CSS, Axios**

- Built a clone using the **MERN stack** to understand & implement full-stack development concepts.
- Designed & developed email compose, send, inbox, & delete features with **material UI** using React.
- Implemented **CRUD operations** for managing emails, integrated MongoDB for storing user data.
- Project more focused towards the UI/UX and fetching data from the backend using routes and axios.

4. Hostel Management System – Fullstack Web Application**Tech Stack: React, Node.js, Express, MongoDB, Mongoose, JWT authentication, cookies**

- Built a simple hostel management system using **MERN** stack to manage user checking & booking.
- Created **RESTful API** routes and controllers for secure user registration, login, and room booking.
- Implemented **JWT-based authentication** for secure access to protected middleware routes.
- Designed MongoDB schemas to store and manage user and room booking data efficiently.

TECHNICAL SKILLS

C/C++, JavaScript, React, Node.js, Express.js, MongoDB, MySQL, Tailwind CSS, CSS, HTML

EXTRA CURRICULAR ACTIVITIES

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| E-Sports | Secured 4th Position in National Inter-College Valorant tournament during Shaastra '22 . |
| Fitness | Among top 20 from 200 probables in NSO Fitness program for excellent physical fitness. |
| LitSoc | Led our hostel to secure 1st position in LitSoc 2023-24 for the first time in 60+ years. |