

EDUCATION

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

Matterize <i>(Full-stack Intern)</i>	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

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.