

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 backend routes and controllers for secure user registration, login, and room booking.
- Implemented **JWT-based authentication** for secure access to protected middleware routes.
- Focused on understanding and implementing core full-stack web development concepts.

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