

AMRITH KUMARESAN

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EDUCATION

BS+MS Biotechnology	Indian Institute of Technology, Madras	7.5/10	2025
XII (Sr. Secondary) CBSE	Vidyashram Public School, Kota	85.2 %	2019
X (Secondary) CBSE	Vidyashram Public School, Kota	85.5 %	2017

TECHNICAL SKILLS

C/C++, JavaScript , React , Node.js, Express.js, MongoDB, SQL, Git, Tailwind CSS, CSS, HTML, Docker, Redis

PROFESSIONAL EXPERIENCE

Matterize (Full-stack Intern)	Matterize helps turn complex scientific concepts into engaging, accessible 3D animations & simulations
	<ul style="list-style-type: none">• Built a dynamic MERN-stack dashboard by significantly improving operational tracking efficiency by 40%• Streamlined RESTful API processes reducing average latency by 20%, improving overall system efficiency• Automated routine API testing workflows using Postman and significantly cutting debugging cycles by 30%
FALCO (Backend Intern)	Mobility startup developing an innovative app for seamless and sustainable transportation solutions
	<ul style="list-style-type: none">• Designed & deployed RESTful APIs with Express.js, Node.js, & MongoDB for dynamic content delivery• Enhanced application security by JWT-based authentication, OTP verification, and user data management• Significantly improved software with thorough testing and documentation, boosting performance & efficiency• Leveraged Google API for diverse functionalities including email services and OTP verification processes

RELEVANT PROJECTS

1. E-Commerce Website – Full-stack Web Application [\(Link\)](#)

Tech Stack: React (Vite), Node.js, Express, MongoDB, Redis, Stripe API, Zustand, Tailwind CSS, DaisyUI

- Created scalable e-commerce platform with authentication, **cart, coupon, and payment functionalities**
- Implemented secure authentication flow using **Redis** managing, caching & validate access & refresh tokens
- Learned & Integrated **Stripe API** to enable smooth, secure, seamless & efficient online payment processing
- Developed **separate admin routes** for managing products, viewing sales, and monitoring platform activity
- Implemented **Zustand** for **global state management** and styled frontend with **Tailwind CSS** with **DaisyUI**

2. Twitter-Clone – Full-stack Web Application [\(Link\)](#)

Tech Stack: React (Vite), Node.js, Express.js, MongoDB, JWT, TanStack Query, Tailwind CSS, DaisyUI

- Developed full-stack social media platform with posts, comments, likes, threaded discussions, and profiles
- Implemented secure **JWT authentication & Restful APIs** handling login, logout, & middlewares efficiently
- Built features for creating posts, uploading photos, commenting, following users, and dynamic suggestions
- Styled frontend using **Tailwind CSS & DaisyUI**, managed state with **TanStack Query**, deployed on Render

3. Video Call & Chat Application – Full-stack Web Application [\(Link\)](#)

Tech Stack: React, Node.js, Express, MongoDB, Mongoose, GetStream.io, TanStack Query, Zustand

- Built real-time video call & chat platform using **GetStream.io WebSocket APIs** for seamless communication
- Implemented secure **JWT authentication** ensuring protected user sessions & consistent authorization flow
- Utilized **TanStack Query and Zustand** for efficient data management and real-time state synchronization
- Designed modern, responsive UI with **Tailwind CSS & DaisyUI** supporting **32 dynamic theme** customization

4. SaaS Dashboard – Multi-Tenant Full-stack Web Application [\(Link\)](#)

Tech Stack: React (Vite), Node.js, Express.js, MongoDB, JWT, TanStack Query, Tailwind CSS, DaisyUI

- Built a **multi-tenant SaaS dashboard** enabling isolated company workspaces & for secure data separation
- Implemented **JWT authentication & role-based access control** separate for admins & company members
- Separate routes only **accessible by the admin** like inviting members and upgrading plan from free to pro
- Responsive frontend with **Tailwind CSS & DaisyUI**, efficient data fetching/updating using **TanStack Query**

EXTRA CURRICULAR ACTIVITIES

E-Sports	Secured 4th Position in National Inter-College Valorant tournament during Shaastra '22
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