

# VANSH KUMAR GARG

Personal Website

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## EDUCATION

### Thapar Institute of Engineering and Technology, Patiala, Punjab

B.E. in Computer Science and Business Systems

Sep 2022 – May 2026

Current CGPA: 7.86

### Mahindra Public School, Bathinda, Punjab

XII (CBSE)

May 2022

12th Grade: 89.3%

## TECHNICAL SKILLS

**Domains:** MERN Stack Development, Database Management

**Languages:** C/C++, HTML5, CSS3, JavaScript, SQL

**Frameworks/Libraries:** Node.js, React.js, Express.js

**Backend Concepts:** RESTful APIs, Asynchronous Programming, Load Handling, System Design Basics

**Tools/Platforms:** VS Code, MongoDB, Postman, Git, Stripe API, JWT, Clerk

**Systems/Version Control:** Linux, GitHub

**Coding Platforms:** Leetcode, GeeksforGeeks

## RELEVANT COURSEWORK

- Data Structures
- Database Management
- Artificial Intelligence
- Software Engineering
- Algorithms Analysis
- Machine Learning
- Operating Systems
- Computer Networks

## PROJECTS

### MovieTix – Online Movie Ticket Booking Platform

Live Demo — GitHub

- Developed and deployed a full-stack movie ticket booking platform using **React.js, Node.js, Express.js, MongoDB, Stripe, Tailwind CSS and Clerk**, enabling real-time seat selection, seamless booking workflows, and secure online payments for end-users.
- Integrated **Stripe Checkout and webhook automation**, streamlining the booking process with instant payment verification and automatic booking confirmations, reducing manual overhead to zero.
- Designed and implemented a **responsive, user-centric UI** with **Tailwind CSS and Lucide Icons**, improving user interaction efficiency during seat selection and checkout flows across devices.
- Built a secure authentication system using **JWT and Clerk**, enabling frictionless user sign-up and login experiences while ensuring admin-level control over movies, shows, and bookings.
- Optimized backend operations with **Mongoose indexing and asynchronous API design**, reducing average seat availability response time to under 300ms during high-traffic load tests.
- Designed and maintained **Vercel-based infrastructure**, enabling rapid iteration and continuous delivery of new features to end-users with zero downtime during deployments.

### Food-Delivery Website

GitHub

- Tech Stack: React.js, Redux Toolkit, Node.js, Express.js, MongoDB, Stripe, Postman, Tailwind CSS
- JWT-based authentication and role management for customers, restaurants, and delivery agents.
- Dynamic menu and cart system with real-time menu updates, cart operations, and secure checkout flow.
- RESTful APIs handling order lifecycle management: order placement, status tracking, and delivery assignment.
- Responsive UI featuring restaurant listings, food categories, live order tracking, and cart management.
- Admin and restaurant dashboards for menu control, order monitoring, and delivery coordination.
- Stripe payment integration managing transaction security and automated order confirmation.

### E-Commerce Website

GitHub

- Tech Stack: HTML, CSS, JavaScript, Font Awesome
- Responsive e-commerce front-end with **HTML, CSS, JavaScript, React**, and **Tailwind CSS**, compatible with mobile, tablet, and desktop devices.
- Created frontend modules for product display and promotions, with admin control for real-time updates.
- Mobile-first layouts, product previews, and **Font Awesome** icon integration.

## ACHIEVEMENTS

- **400+ LeetCode Questions Solved:** Covered a wide range of topics including arrays, graphs, dp, and strings.
- **150+ GeeksforGeeks Questions Completed:** Strengthened understanding of data structures and algorithms through hands-on coding practice.
- **LeetCode Rating: 1562:** Achieved a competitive rating through consistent participation in weekly coding contests.