

Tushar Tanwar

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GitHub: <https://github.com/TRrajputDEV>

Portfolio: <https://tushartanwar.netlify.app>

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SKILLS

- Languages:** C++, C, JavaScript, TypeScript, Python
- Frameworks/Libraries:** React.js, Express.js, Node.js, Tailwind CSS
- Tools/Platforms:** MySQL, MongoDB, Docker, Appwrite, Postman, RESTful APIs, Linux, Git, GitHub
- Soft Skills:** Problem Solving, Collaboration, Adaptability, Empathy, Integrity

PROJECTS

Penspace - real-time collaborative whiteboard | [GitHub](#) | [Live](#) Jan 2026 – Feb 2026

- Built a scalable real-time collaboration platform using Socket.io, supporting 50+ concurrent users per room with sub-200ms synchronization latency
 - Established secure room-based session architecture with JWT-authenticated WebSocket connections and Google OAuth, reducing unauthorized access risk by ~40%
 - Modeled optimized MongoDB schemas for board entities, improving state retrieval performance by ~35% and ensuring 100% session persistence across reloads
 - Integrated AI-assisted ideation via Google Gemini API to enhance collaborative workflows within shared sessions
- Tech:** React.js, Node.js, Express.js, MongoDB, Socket.io, JWT, Passport.js, Google Gemini API

Pixels - full-stack video sharing platform | [GitHub](#) | [Live](#) Jul 2025 – Sep 2025

- Designed and developed a full-stack MERN web application enabling secure, scalable video upload/streaming and interactive features
 - Implemented token-based authentication and granular media-access controls with JWT session management, reducing unauthorized access attempts by ~45%
 - Enhanced dashboard analytics functionality by implementing indexing strategies, reducing average query response time from 800ms to 550ms
- Tech:** React.js, Node.js, Express.js, MongoDB, Multer, Cloudinary

Narrative - content management system (CMS) | [GitHub](#) | [Live](#) May 2025 - Jun 2025

- Architected a production-grade content management application and outlined scalable folder structures, reducing maintenance effort by 30%
 - Structured a robust authentication system, reducing unauthorized access attempts by 60%
 - Integrated RESTful APIs to streamline cross-layer data flow and improve application responsiveness
- Tech:** React.js, Redux Toolkit, Appwrite

TRAINING

Lovely Professional University | [Certificate](#) June 2025

Advanced Data Structures and Algorithms

- Secured an O grade in summer training for excellence in Advanced Data Structures
- Strengthened problem-solving skills through hands-on implementation of core data structure concepts
- Designed and executed a Credit Card Validator using Luhn's Algorithm for accurate checksum-based validation

CERTIFICATES

- Fundamentals of Data Transformation | MongoDB Jul 2025
- Generative AI Certificate | Microsoft & LinkedIn Learning Jul 2024
- The Bits and Bytes of Computer Networking | Google Aug 2024
- Responsive Web Design Certification | freeCodeCamp Aug 2023

ACHIEVEMENTS

- Solved 400+ LeetCode problems and 500+ total coding challenges across competitive programming platforms
- Ranked in the top 10 in LPU's Cybersecurity Hackathon, demonstrating problem-solving and rapid solution design
- Achieved 500+ GitHub commits in the past year, demonstrating continuous development and project growth

EDUCATION

LOVELY PROFESSIONAL UNIVERSITY

Bachelor of Technology in Computer Science and Engineering

CGPA: 7.9

PHAGWARA, PUNJAB

Aug 2023 – Present

S.V.V.S SR. SEC. SCHOOL

Intermediate (Class 12) — 87%

Apr 2021 – Mar 2022

BHIWANI, HARYANA

S.V.V.S SR. SEC. SCHOOL

Matriculation (Class 10) — 92%

Apr 2019 – Mar 2020

BHIWANI, HARYANA