Tushar Panchal

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Education

Thakur Polythechnic, Diploma in Computer Engineering   Dec 2020 - Jun 2023
- Percentage: 87.37

Dwarkadas J. Sanghvi College of Engineering , B.Tech in CSE (ICB)   Aug 2023 - Jun 2026
- CGPA: 8.98

Experience

Web Developer Intern, Nibodh Educare Pvt. Ltd.   Jul 2022 – Aug 2022
- Built a dynamic certificate generation platform, reducing manual work by 70%.
- Worked with MySQL to understand database structures, querying, and RDBMS concepts.
- Implemented backend logic for dynamic content rendering in pet food and grocery web apps.
- Worked with form validation, modular architecture, and database connectivity.

Projects

DeFund - *Solidity, Remix IDE, ZKP*   Apr 2025
(GitHub Link)
- Implemented ZKP-based validation to secure Ethereum transactions and prevent verification errors.
- Enhanced transaction reliability by 80% through automated validation logic on Ethereum test networks.
- Designed and deployed secure smart contracts using Remix IDE and test network integrations.

Hospital Resource Management System – *Django, MongoDB, Python, Bcrypt*   Jun 2025
(GitHub Link)
- Developed a backend system to track and predict hospital resource usage using an AI model trained on 7-day historical data.
- Reduced manual tracking workload by 60% through real-time data visualization and AI-driven recommendations.
- Deployed the application on Render, gaining hands-on experience with cloud deployment workflows.

Learning Management System – *Django, Python, HTML, CSS*   Jun 2025
(GitHub Link)
- Built a role-based Learning Management System using Django, enabling teachers to create courses, upload video lessons, and manage quizzes, while students enroll and learn through structured content.
- Implemented lesson progress tracking and automated quiz evaluation, allowing students to monitor completion status and view instant results.
- Designed a normalized relational database using Django ORM for users, courses, lessons, enrollments, and quiz attempts with secure authentication.

Hackathons and Competitions

- **Innovize Ideathon (VJTI):** Secured 4th place out of 18 teams in Blockchain based Ideathon.
- **Breach Bytes CTF (D.J. Sanghvi):** Ranked 8th among 30 Teams in a competitive 8-hour CTF challenge.
- **Innovize CTF (VJTI):** Successfully cleared the first 3 rounds of a 7-round CTF competition.
- **Hacknova (TCET):** Participated in a 36-hour hackathon, developing a Blockchain based problem solution.

Technical Skills

Languages/Libraries: Python, C++, HTML, CSS, SQL.
Frameworks: Django.
Tools: Git, GitHub, Postman, VS Code, MySQL Workbench, MongoDB, Docker.
Academics: Machine Learning, DSA, DBMS, OS, Computer Networks, Cloud Computing, OOP, VAPT.