

# Tarandeep Singh Juneja

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## Summary

Computer Science undergraduate at VIT Bhopal (Graduating 2026) with hands-on experience in building scalable full-stack applications, contributing to open-source, and applying ML in real-world projects. Skilled in TypeScript, React, Node.js, and Python, with a strong foundation in DSA and a proven track record from internships, hackathons, and national competitions.

## Education

**Vellore Institute of Technology, Bhopal** Aug 2022 – Jun 2026  
Bachelor of Technology (B.Tech) in Computer Science and Engineering

- GPA: 8.4 / 10.00
- **Key Courses:** Data Structures and Algorithms, Operating Systems, Computer Networks, Database Management Systems, Object-Oriented Programming

## Professional Experience

**FOSSEE Summer Intern – IIT Bombay** Feb 2025 – Apr 2025

- Developed a UI module for the Osdag software named Plate-girder.
- Implemented calculations for bolted butt joint connections .
- Followed Object-Oriented Programming principles in Python to ensure modular, reusable code.

**AI-Based Road Inspection Project – Omdena** Jan 2023

- Trained and labeled 1000+ road defect images using Roboflow for a deep learning computer vision model.
- Improved dataset quality through Roboflow's preprocessing tools, contributing to 15

## Projects

**Remote Interview Platform [GitHub]** Feb 2025

**Tech Stack:** Next.js 14, TypeScript, Stream API, Convex, Clerk, Tailwind CSS, Shadcn UI  
Developed a full-stack interview platform with real-time video conferencing, screen sharing, and recording. Integrated secure auth (Clerk) and real-time data sync (Convex) with a responsive UI.

**Task Management System [GitHub]** Dec 2024

**Tech Stack:** React, TypeScript, Tailwind CSS  
**DSA:** Priority Queue, Linked List, Binary Search, Sorting Algorithms  
Built a task manager showcasing core data structures: Min Heap for prioritization, Linked List for traversal, Binary Search for filtering.  
Included real-time search, category views, priority-based sorting, and a responsive dark-mode UI.

## Skills

**Technical Skills:** Data Structures & Algorithms (DSA), TypeScript, JavaScript, C++ , SQL, Python, Open Source, Next.js, React, Node.js, Open Source, Tailwind CSS, Supabase, Git, GitHub, Postman, AWS (Basics), Roboflow, Linux (Basics)

## Certifications

- HTML, CSS, and JavaScript for Web Developers (Coursera, Dec 2023)
- Cloud Computing (NPTEL)
- Postman API Fundamentals

## Achievements

- **Adobe GenSolve Hackathon Finalist:** Finalist out of 200+ participants, demonstrating strong problem-solving and technical skills.
- **Industry Conclave Buildathon (Top 5):** Ranked among top 5 teams, showcasing project execution and rapid development.