

TARANDEEP SINGH JUNEJA

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Education

Vellore Institute of Technology, Bhopal

Aug 2022 – Jun 2026

B.Tech in Computer Science and Engineering

CGPA: 8.41/10.0

St. John's Senior Secondary School, Damoh

2021

Class XII – 81%

St. John's Senior Secondary School, Damoh

2019

Class X – 86.6%

WORK EXPERIENCE

FOSSEE Summer Intern

Feb 2025 – Jun 2025

IIT Bombay

- Developed a UI module for Plate-girder in Osdag using Python, deployed for 500+ global structural engineers.
- Integrated bolted butt joint computation logic achieving 99% accuracy across connection scenarios.
- Applied OOP principles and design patterns to create a modular Python codebase improving maintainability by 20%.
- Improved UI interaction time by 25% through refactoring rendering logic and reusable components.

Software Taxonomy Analyst (Freelancer)

Sep 2024

Outlier AI — Prompt Engineer, C++ Code Classification

- Labeled and classified 100+ multi-language code snippets using Core Foundations (L0–L2) taxonomy for ML model training and software knowledge graphs.
- Specialized in software debugging workflows, testing heuristics, and identifying architectural patterns across C++, JS, and Python.

PROJECTS

Remote Interview Platform — Next.js 14, TypeScript, Stream API, Convex, Clerk — [GitHub]

Feb 2025

- Built a full-stack remote interview system with video calls, screen sharing, recordings, and collaborative whiteboard.
- Secured sessions with Clerk auth and Convex DB sync, optimized for 5+ simultaneous interviews.
- Achieved 90%+ session stability in interviews conducted over low-bandwidth networks through media stream optimization.

Task Management System — React, TypeScript, Tailwind CSS — [GitHub]

Dec 2024

- Engineered a DSA-driven task platform: Min Heap for priority, Linked List for traversal, and Binary Search for filters.
- Enabled real-time search and sorting for 100+ tasks across categories, with responsive dark-mode UI and frame-synced animations.
- Incorporated Open Source design principles and reusable modular components for community-ready deployment.

TECHNICAL SKILLS

- **Languages:** C++, Python, SQL, JavaScript
- **Frameworks:** React, Convex, Clerk, Tailwind CSS, REST APIs
- **Tools & Platforms:** Git, GitHub, Postman, HTML5, CSS3, Open Source
- **CS Foundations:** Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks

CERTIFICATIONS

- **Postman API Fundamentals Student Expert** — Postman Academy **Aug 2025**
- **IBM Blockchain Foundation Developer** — IBM **Apr 2025**
- **Oracle Database for Developers: Foundations** — Oracle **Nov 2024**

ACHIEVEMENTS

- **Adobe GenSolve Hackathon Finalist** — Achieved finalist status among 200+ participants
- **Skills India National Competition (Cloud Computing)** — Advanced to State-level after clearing district round
- **Competitive Programming** — Solved 500+ DSA problems on LeetCode, GeeksforGeeks, and CodeStudio