# Tarandeep Singh Juneja

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## Summary

B.Tech CSE student at Vellore Institute of Technology, Bhopal (CGPA 8.53) with experience in Python, React, Next.js, SQL, and C++, and internship exposure at IIT Bombay. Skilled in full-stack and open-source development, UI design, and Data structures & algorithms, with achievements in hackathons and competitive programming.

## 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 - Jan 2025**
*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] — [Live Demo] **Feb 2025**
- Developed a full-stack remote interview system with video calls, screen sharing, recordings, and a collaborative code editor—replacing the need for multiple separate tools.
- Built real-time video collaboration with integrated code editor, removing tool-switching.
- Automated the entire interview lifecycle with 100% status updates and missed-interview detection, enabling role-based access across 3 user types and ensuring 100% device cleanup via Stream Video SDK.

**Nitt Karam – AI Task Management System** — *React, TypeScript, Tailwind CSS* — [GitHub] — [Live Demo] **Dec 2024**
- Built an AI-enhanced task management platform with natural language task creation and project breakdown using Google Gemini API with fallback logic, reducing manual task entry time by 60%.
- Implemented advanced data structures (Min-Heap, Linked List, Binary Search) for efficient prioritization and traversal, enabling real-time search/sorting of 100+ tasks with sub-100ms response time.
- Implemented a responsive, community-ready UI with 95%+ mobile responsiveness, integrated analytics dashboard for productivity insights, and reusable modular components for scalability.

## 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

## Education

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|---|---|
| **Vellore Institute of Technology, Bhopal** | **Aug 2022 – Jul 2026** |
| *B.Tech in Computer Science and Engineering* | *8.53/10.0* |
| **St. John's Senior Secondary School, Damoh** | **2021** |
| *Class XII* | *81%* |
| **St. John's Senior Secondary School, Damoh** | **2019** |
| *Class X* | *86.6%* |

## CERTIFICATIONS

- **Postman API Fundamentals Student Expert** — Postman Academy                    **Aug 2024**
- **IBM Blockchain Developer** — IBM Skills Network                                 **Sep 2024**
- **Oracle Database for Developers: Foundations** — Oracle                          **Nov 2024**
- **OCI Foundations Associate** — Oracle Cloud Infrastructure                       **Feb 2025**
- **OCI Architect Associate** — Oracle Cloud Infrastructure                         **Feb 2025**