

TARANDEEP SINGH JUNEJA

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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, 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.
- Developed 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

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 & Achievements

- **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
- **Adobe GenSolve Hackathon Finalist** – Reached finalist status among 200+ teams, demonstrating strong problem-solving and technical skills.