Tarandeep Singh Juneja

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Education

Vellore Institute of Technology, Bhopal.,   Aug 2022 – Jun 2026
Bachelor of Technology in Computer Science and Technology.

- GPA: 8.27/10.0
- **Relevant Coursework:** Data Structures, Algorithms, Operating Systems, Computer Networks, Database Management Systems.

Professional Experience

FOSSEE Summer Intern – IIT Bombay   Feb 2025 - April 2025

- Developed a UI for the Osdag software, focusing on plate girder design to enhance usability.
- Currently working on joint bolted connections Module, contributing to structural design improvements.

Projects

Remote Interview Platform

- **Tech Stack:** Next.js 14, TypeScript, Stream API, Convex, Clerk, Tailwind CSS, Shadcn UI.
- Built a full-stack interview platform with real-time video conferencing, screen sharing, and recording features. Implemented secure authentication with Clerk and real-time data sync using Convex. Created a modern UI with Tailwind CSS and Shadcn UI components.

SaaS AI-Enhanced Video Management System

- **Tech Stack:** React, Node.js, Vite, Supabase (Storage, Database, Auth), Whisper AI, Tailwind CSS, TypeScript, Shadcn UI.
- Developed an AI-powered video management system with Whisper.cpp for transcription, enabling efficient content retrieval. Used Supabase for secure storage and authentication, with a React + Vite frontend styled with Tailwind CSS and Shadcn UI. Features include real-time progress tracking, drag-and-drop uploads, and automatic transcription.

AI-Based Road Inspection Model (Omdena)   Jan 2023

- **Tech Stack:** Roboflow, Computer Vision, Deep Learning, Python, TensorFlow.
- Trained and processed 50,000+ images in Roboflow, improving model accuracy by 15%.
- Applied advanced data augmentation techniques in Roboflow, enhancing detection performance by 10%.

Skills

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

Certifications and Achievements

Certifications:

- HTML, CSS, and JavaScript for Web Developers (Coursera, Dec 2023)
- Python Essentials, AI and ML Fundamentals (Vityarthi)
- Cloud Computing (NPTEL)
- Oracle's Databases for Developers certification.
- Postman API Fundamentals certification, enhancing API development skills.

Achievements:

- **Adobe GenSolve Hackathon Finalist:** Reached finalist status out of 200+ participants, demonstrating strong problem-solving and technical skills.
- **Industry Conclave Buildathon (Top 5):** Achieved top 5 among competitive teams, enhancing project management and rapid coding efficiency.
- **Skills India National Competition Qualifier (Cloud Computing):** Advanced to the State level in cloud computing, showcasing advanced technical proficiency.