Sanskar Goyal

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Summary

Passionate systems developer (C++/Python) and SIH Hackathon '23 Finalist. Skilled in building and optimizing backend data pipelines (FastAPI, Django) and analyzing real-time data streams (Azure AI, OpenCV). Eager to apply strong C++ fundamentals and experience with statistical data handling to build lightweight, high-performance heuristics for efficient systems, such as those in real-time video analytics.

Education

M.Tech, Computer Science   **2025 − 2027**
IIIT Delhi, Delhi   CGPA: / 10.0

B.Tech, Computer Science   **2021 − 2025**
IPS Academy, Indore (RGPV)   CGPA: 7.62 / 10.0

Professional Experience

AR/VR Developer Intern   **Jun 2024 − Jul 2024**
CMS-ERP, IPS Academy

- Engineered an interactive virtual campus tour in Unity with optimized asset streaming for Meta Quest VR.
- Authored and delivered an AR/VR curriculum, upskilling 20+ students in Unity, C#, and immersive tech best practices.

Projects

Virtomo: VR Conferencing & AI Interview Simulation   *(Unity, FastAPI, Azure, Photon Fusion)*

- Developed a VR conferencing system with real-time voice via Photon and screen sharing using Python.
- Built a Python-based FastAPI backend to manage real-time data streams and API communication between multiple clients and a central server.
- Integrated Azure Cognitive Services (Speech-to-Text, OpenAI) for real-time AI-driven analysis and data extraction.

Ezii: Document Management & Scholarship Verification Portal   *(Python, Django, REST API)*

- Developed secure RESTful APIs (DRF) with authentication and rate limiting for a data management project.
- Engineered a backend automation pipeline to aggregate and process data from AISHE, reducing manual verification by 75%.
- Utilized SQLite for persistent data management and integrity; performed comprehensive backend testing.

Technical Skills

- **Languages:** C, C++, Python , SQL
- **Web & Backend:** Django, FastAPI, RESTful APIs, HTML, CSS , SQLite
- **Cloud, ML & Tools:** Azure (OpenAI Service, Speech APIs), OpenCV, Machine Learning (Basic), Unity, Figma, Git

Achievements & Certifications

- **Top 5 Finalist**, Smart India Hackathon (GOV PSID1306)
- **Winner**, College Hackathon Phases 1 (2024) & College Hackathon Phase 1 & 2 (2025)
- **Certifications:** Unity Essentials, VR Development in Unity, C, C++

Leadership & Extracurricular

- **President, Real XR Club (IPS Academy):** Organized 5+ AR/VR workshops, mentoring 10+ students in immersive tech development.
- **Mentor, Unity & AR Workshops:** Conducted hands-on sessions on Unity AR fundamentals, guiding novices to build 3 live demos.