Dhairya Mittal

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Summary

Computer Science undergraduate specializing in Data Structures & Algorithms (C++), Object-Oriented Programming, and backend engineering. Experienced in building scalable applications and real-time AI systems using C++, Java, Python, JavaScript, and Dart. Actively participates in national-level hackathons and practices competitive programming.

Technical Skills

Languages: C, C++, Java, Python, JavaScript, Dart, Go
Core: Data Structures & Algorithms, OOP, System Design (basic), OS fundamentals
Frameworks/Libraries: React, React Native, Node.js, FastAPI, Flask, TensorFlow, PyTorch, Pandas, NumPy, OpenCV, MediaPipe
Tools/Platforms: Git, GitHub, Docker, Postman, Firebase, Supabase, AWS, Azure, Google Cloud, Linux/Unix

Projects

ETryRoom – AI Virtual Try-On System (Python)

- Engineered a real-time virtual try-on system using webcam input and computer vision techniques.

- Implemented human pose detection, 3D body modeling, and cloth overlay for realistic visualization.

- Optimized frame processing pipeline for smooth real-time performance.

- Tech: Python, OpenCV, MediaPipe, NumPy

Smart Crop Advisory System (TypeScript)

- Developed a recommendation system to suggest suitable crops based on environmental inputs.

- Designed backend logic for data processing and rule-based decision making.

Nexus – Social Media Platform (JavaScript)

- Built a full-stack social media application with user authentication and post management.

- Integrated frontend with backend APIs and database services.

DM-Plays – Streaming Application (C++)

- Created a console-based streaming-style platform with modular architecture.

- Implemented file handling and efficient data structures for content management.

Refrigerator Alchemist (Dart)

- Developed a mobile application that recommends recipes based on available ingredients.

Coding & Competitive Programming

– Practices Data Structures & Algorithms problems regularly on LeetCode.

– Proficient in Arrays, Strings, Recursion, Linked Lists, Stacks, Queues, Trees, Sorting, Searching.

– Maintains active GitHub profile with multiple public repositories and regular commits.

Hackathons & Competitions

– Zennovatio 3.0 – GenZ Hackathon, Chandigarh University (Powered by ByteXL)

– Smart India Hackathon (SIH)

– Google AdMob App Development Challenge (IIT Bombay)

– Code Slayers 2K25 (NIT Delhi)

Education

B.Tech in Computer Science Engineering	2024 – 2028
Amity University Punjab	
Senior Secondary (CBSE)	2022 – 2024
Guru Nanak Khalsa Senior Secondary School	
Secondary (ICSE)	2014 – 2022
St. Xavier's High School	
Matriculation (Class X) – Punjabi (PSEB)	2022 - 2023
Punjab School Education Board	

Certifications

– Quantum Computing – One-month specialized training by C-DAC Hyderabad and IIT Roorkee under the Ministry of Electronics & Information Technology (MeitY), Government of India (May 2025)