

AYUSH GOYAL

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Education

Zakir Husain College of Engineering & Technology, AMU <i>Bachelor of Technology in Computer Engineering</i>	2023 – 2027 9.01/10 CGPA
Sayyid Hamid Senior Secondary School, Aligarh (AMU) <i>Intermediate</i>	2022 – 2023 97.6/100
Saraswati Vidya Mandir School, Aligarh (CBSE) <i>High School</i>	2020 – 2021 96.2/100

Technical Skills

Languages: C/C++, Python, HTML, CSS, Java, JavaScript, SQL

Frameworks and Libraries: OpenCV, Raylib, React

Clouds & Databases: MySQL, SQLite3

Developer Tools: Git, Visual Studio, Jupyter Notebook

Projects

High-Accuracy Object Tracking and Pose Estimation

[Source Code](#)

- **Skills:** SIFT, BF Matcher, Homography, Perspective Transform, Perspective-n-Points (PnP)
- Developed an object tracker that works with any object by determining its position relative to the camera. It can also estimate the rotation of the object with respect to the camera.

Airline Management System (Java Desktop App)

[Source Code](#)

- **Skills:** Java, Swing, JDBC, NetBeans, OOP, GUI Design, MySQL Connectivity
- Developed a Java-based airline booking system with features like flight booking, customer registration, flight info retrieval, and cancellation. Implemented GUI using Swing and database integration via JDBC. Packaged the application using JAR for distribution.

Snake Game Using Raylib

[Source Code](#)

- **Skills:** C++, Raylib, Raymath, Game Loops, Collision Detection, OOP, Texture and Sound Management
- Built a classic Snake Game using Raylib in C++ featuring real-time gameplay, sound effects, textured food items, and collision logic. Employed object-oriented principles to manage game components efficiently.

Real-Time Face Detection using OpenCV

[Source Code](#)

- **Skills:** OpenCV, Haar Cascades, Face Detection and Recognition, Python
- Developed a Python-based face detection and recognition system using OpenCV and Haar cascades; accurately identifies and labels faces from images or real-time video streams.

Image Filter Editor Web App in ReactJS

[Source Code](#)

- **Skills:** React.js, JavaScript, CSS Grid, UI Components, State Management, Dynamic CSS Filters
- Developed a responsive web app that applies real-time image filters (e.g., brightness, contrast, blur) using React components and hooks. Implemented a custom sidebar and slider interface to control image properties dynamically.

Mynta Clone

[Source Code](#)

- **Skills:** HTML5, CSS3, Responsive Web Design, Web UI Styling
- Created a responsive front-end clone of the Mynta shopping site using HTML and CSS, replicating its layout and design to enhance UI/UX development skills.

Achievements

- Board Topper in Class 12th
- School Topper in Class 10th
- Qualified Jee Advanced And Jee mains with good rank