

ADITYA GUPTA

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GitHub:// [AdityaGuptaGitHub](#) | LinkedIn:// [AdityaGuptaLinkedIn](#)

EDUCATION

Jaypee University of Information Technology

B.Tech in Computer Science Engineering- CGPA: **8.39/10**
(Proficiency: Information Security)

Solan, H.P.

August 2022 - June 2026

Swami Vivekanand Sr. Sec. School

12th Standard PCM (HPBOSE) - Percentage : **79.20%**

Mandi, H.P.

April 2020 – March 2022

SKILLS

Languages: C++, C, Python

Frontend: HTML, CSS, JavaScript

Backend: MySQL, PostgreSQL

Libraries/Frameworks: OpenGL, SFML, Numpy, PyAudio, Flask

Tools & Technologies: MATLAB, Simulink, Git, GitHub, Linux, VS Code, Jupyter, Wireshark, FTK Imager, VirtualBox

Soft Skills: Problem Solving, Time-Management, Result-driven

PROJECTS

Meteor Escape | C++-based 2D Survival Game

2025

- Developed a 2D survival game in **C++** using **OpenGL/GLUT**, where players dodge falling meteors using real-time controls.
- Implemented **dynamic obstacle generation**, **collision detection**, and **score tracking** for responsive gameplay.
- Designed with smooth visuals, booster effects, and start/game-over screens for an engaging experience.

Sort Snap | C++-based Sorting Algorithm Visualizer

2024

- Developed a **C++** application for visualizing **sorting algorithms**, using **SFML** to create an **interactive graphical interface**.
- Implemented popular sorting algorithms, including **Bubble Sort**, **Selection Sort**, **Quick Sort**, and others, with **step-by-step animations** to illustrate each **comparison** and **swap**.
- Added **user controls** for adjusting **visualization speed**, allowing users to observe and understand each algorithm's **efficiency** and **behavior**.

Typing Dash | Online Typing Accuracy Tester

2024

- Created an **interactive web-based application** that measures **typing speed** and **accuracy**, providing feedback in **real-time**.
- Designed using **HTML**, **CSS**, and **JavaScript**, it tracks **performance** and helps users improve their **typing skills** through continuous practice.
- Features **adjustable difficulty**, **WPM measurement**, and **error tracking** to enhance **typing proficiency** over time.

Speechly | Python-based Real-Time Speech Censorship System

2023

- Built a Python tool to **transcribe live speech** and **sensor** predefined keywords with beep sounds in real-time.
- Used **gTTS**, **SpeechRecognition**, and **PyAudio** for speech processing and playback.
- Applied **multi-threading** for smooth transcription, redaction, and audio output.

COURSEWORK

Data Structures and Algorithms | Design and Analysis of Algorithms | Database Management System | Operating System | Cybersecurity Fundamentals | Object Oriented Programming | Computer Graphics and Visualization | Computer Networks

ACHIVEMENTS

92% percentile Wheebox Global Employability Test | **HackerRank**: 4★ C++, 4★ SQL, 3★ Python

CODING PROFILES

[Leetcode](#) [GeeksForGeeks](#) [CodeStudio](#) [HackerRank](#)