

# HITESH KUMAR SINGH



## PROFILE SUMMARY

Enthusiastic and solutions-driven B.Tech Computer Science student with a strong foundation in Full-Stack Development, Cloud Computing (AWS), and modern programming languages like C++, Python, and PHP. Adept at building responsive web applications using React and managing databases with MySQL. Proven track record of delivering real-time projects such as an audio plugin using JUCE and a hotel booking system. Passionate about continuous learning and applying technical knowledge to real-world problems in a collaborative environment.

## CONTACT DETAILS

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## PERSONAL INFORMATION

Citizenship: **Indian**  
Languages: **English, Hindi**

## SKILLS

- **Programming Languages:** C++, C, Python, PHP
- **Web Development:** React Development, HTML, CSS, Javascript
- **Database Management:** MySQL Database Management
- **Cloud and Systems Management:** AWS Cloud Management
- **Tools and Software:** Microsoft Excel, JUCE Framework, VS Code

## EDUCATION

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE ENGINEERING. FROM *Babu Banarsi Das Engineering College*      **October 2021 – June 2025**

SENIOR SECONDARY (XII) IN SCIENCE. FROM *Kendriya Vidyalaya No.1, Ahmednagar*      **April 2019 – March 2020**  
**CGPA:** 8.25/10

## PROJECTS

**HOTEL BOOKING WEBSITE USING PHP, MYSQL**      **April 2025 - Present**  
Developed a system to simplify the reservation process for customers and administrators, allowing bookings for various types of rooms.

### Key Features:

- User Side: Room booking, booking management, user reviews, and user authentication.
- Admin Side: Room management, booking oversight, and user management.

**Technologies Used:** PHP, MySQL, HTML, CSS, Bootstrap.  
**Status:** Ongoing, with core functionalities in development.

**AUDIO PLUGIN DEVELOPMENT WITH C++, JUCE**      **Dec 2024 - Jan 2025**  
Developed a custom audio plugin for real-time audio processing using the JUCE framework. Implemented DSP features for dynamic control and designed an intuitive GUI. Focused on performance optimization and cross-platform compatibility with popular DAWs.

### Key Features:

- Real-time audio processing.
- DSP implementation with dynamic control features.
- Cross-platform compatibility with popular DAWs.

**Technologies Used:** C++, JUCE, Digital Signal Processing (DSP).

**EDUMENTOR**      **Nov 2024 – Jan 2025**  
Developed a dynamic tutoring system using Streamlit and LlamaIndex, incorporating vector embeddings for efficient information retrieval.

### Key Features:

- Personalized learning.
- Efficient information retrieval.
- Interactive user interface for immediate feedback.

**Technologies Used:** Python, Streamlit, LlamaIndex, vector embeddings.  
**Result:** Created a responsive AI-driven educational tool that enhances the learning experience with customized lessons and feedback.

## TRAININGS / CERTIFICATIONS

**AWS (CLOUD COMPUTING)**      **Jul 2024 - Aug 2024**  
◇ *SHAPEMYSKILLS BY DUCAT, Lucknow, India.*

**FULL STACK DEVELOPMENT**      **Aug 2022 - Oct 2022**  
◇ *IIT Kanpur, Virtual.*