

# Mohan Chaturvedi

chaturvedimohan97@gmail.com +91 9140551805 linkedin.com/in/mohan-chaturvedi

## Education

**VIT Bhopal University**, B.Tech in Computer Science and Engineering (Specializing in Cloud Computing and Automation) 2022 - 2026

- CGPA: 7.71

**City Montessori School**, Indian School Certificate (ISC) May 2022

- Grade: 92%

**City Montessori School**, Indian Certificate of Secondary Education (ICSE) May 2020

- Grade: 92%

## Technical Skills

**Languages:** C++, Java, Python, SQL, JavaScript, HTML, CSS, Node.js, TypeScript, Next.js

**Frameworks & Tools:** Flask, React, Express, MongoDB, MySQL, PostgreSQL, Spring Boot, REST API,

**Technologies:** Amazon Web Services (AWS), Git, Excel, GenerativeAI

## Projects

**Highlight Hub** July 2025

- Developed an AI application to automatically extract highlights from videos, reducing manual work by 90%.
- Integrated the VideoDB API to analyze video content, which improved insight generation by 40%.
- Engineered an end-to-end workflow, from video upload to clip generation, which increased processing speed by 25%.
- Designed a Streamlit interface that improved user experience, resulting in a 15% boost in user satisfaction.

**Serenade – Music Player (Electron, React)** February 2025

- Led end-to-end development of a cross-platform desktop music player, validating usability across multiple environments to deliver a polished user experience.
- Simulated user journeys such as music download, playlist organization, and real-time audio visualization to uncover edge cases and improve engagement.
- Collaborated on CI/CD pipelines to ensure faster, safer iterations and stable releases.
- Recognized as a winning project at FOSSHack 2025, demonstrating innovation, product quality, and strong user-centric design.

**Edustream-An Online Learning Platform** March 2024

- Developed an end-to-end learning platform with a Java Spring Boot backend and React frontend, implementing secure multi-user authentication and role-based access control.
- Designed and implemented RESTful APIs for core features like Course Management (CRUD) and lecture progress tracking, resulting in a 20% improvement in user retention tracking data.
- Implemented a RESTful API layer for persistence of user and course data, enabling students to track lecture progress with 100% completion data integrity.
- Designed and built a dynamic, search-and-filterable course catalog interface, increasing course discoverability and student enrollment by an estimated 35%.

## Methodologies & Certifications

**Methodologies:** Agile development, End-to-end system design, CI/CD, Object-Oriented Principle(OOP), Problem Solving and Data Structures.

**Certifications:** AWS Academy Cloud Foundations (AWS Academy Graduate), AWS Academy Cloud Architecting (AWS Academy Graduate)

## Achievements & Recognition

- **FOSSHack'25 Winner:** Recognized for the project Serenade – Music Player.
- **Smart India Hackathon 2023:** College finalist, competing among 300+ teams nationwide.