

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: 7.69

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, Electron, Spring Boot, REST API, Maven

Technologies: Amazon Web Services (AWS), Git, Excel, GenAI

Projects

Video Highlights Extractor 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.

Blood Bank Management System using Amazon Web Services March 2024

- Engineered a full-stack Java Spring Boot application for blood bank management, handling over 10,000 daily interactions with 99.9% uptime.
- Simulated user workflows to proactively address usability challenges, reducing pre-deployment issues by 20%.
- Developed REST APIs with robust data validation and MySQL database integration, ensuring a 99% data accuracy rate.
- Deployed the application on AWS, resulting in a scalable solution and reducing future debugging time by 30% through detailed documentation.

Methodologies & Certifications

Methodologies: Agile development, End-to-end system design, CI/CD, Object-Oriented Design, Problem Solving, and Complexity Analysis.

Certifications: MERN Full Stack (Ethnus), 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.