

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: 7.42

Projects

College Related Enquiry Chatbot

- Developed Conversational AI Chatbot: Designed a smart chatbot for handling college enquiries, offering personalized support through natural conversations.
- Implemented NLP with spaCy: Enabled entity recognition and intent detection to enhance user interaction and provide accurate responses.
- Built Intelligent Dialogue System: Used ChatterBot for managing context-aware conversations, ensuring fluid and relevant exchanges.
- Managed Databases Efficiently: Utilized MySQL for structured user prompt storage and MongoDB for flexible chatbot response storage.
- Led Backend Development: Designed backend architecture with Flask, integrated NLP and databases, and collaborated in a 5-member team for full-stack coordination.

Blood Bank Management System using Amazon Web Services

- Designed and developed a comprehensive full-stack system leveraging XAMPP (Apache, MySQL, PHP) for local development and AWS Windows Server for scalable deployment.
- Implemented a secure PHP backend with MySQL to ensure efficient data management and seamless integration with the frontend. The backend is capable of managing up to 10,000 daily operations and supporting 50 simultaneous users.
- Engineered an intuitive HTML/CSS/JS frontend to enhance user experience, applying responsive design principles for accessibility across devices.
- Collaborated within a team of 5, actively delegating tasks related to frontend, backend, and deployment, fostering an environment of shared learning and responsibility.
- Documented system architecture and user guides to facilitate maintenance and future development of the application.

Serenade – Music Player (Electron, React) | FOSSHack 2025 Winner

- Orchestrated Full-Stack Integration: Seamlessly integrated Electron, React, TypeScript, Express, and Vite to deliver a performant, scalable desktop music player application.
- Implemented SpotDL API Integration: Enabled automated music downloads with metadata tagging and playlist processing, improving user experience and functionality.
- Engineered Real-Time Audio Visualizations: Developed interactive audio visual feedback components using React and Web Audio API for dynamic user engagement.
- Architected Secure Electron Framework: Built a modular, sandboxed Electron structure supporting secure playback, tracklist organization, and efficient resource management.
- Led End-to-End Deployment: Configured CI/CD pipelines, optimized builds for cross-platform support, and deployed the application with robust release management strategies.

SKILLS, CERTIFICATIONS, INTERESTS

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

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

Certifications: Python Essentials(Vityarthi), Industrial IoT Markets and Security(Coursera), MERN Full Stack(Ethnus), AWS Solutions Architect(Ethnus)