

Mohan Chaturvedi

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Education

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

2022 - 2026

- CGPA: 7.71

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

Experience

Software Engineering Intern (Remote) | NovaStack Labs

May 2024 – Aug 2024

- Engineered front-end components using HTML, CSS, and JavaScript, improving UI responsiveness and performance.
- Maintained RESTful APIs with Node.js and Express, integrating back-end services into internal S2P workflow tools.
- Executed unit and integration tests using Jest and Postman, ensuring reliability and 90%+ code coverage.
- Collaborated in Agile sprints for feature planning, issue triage, and root-cause analysis across distributed teams.
- **Key Impact:** Delivered 5+ production-ready features aligned with sprint goals, strengthened CI/CD reliability, and enhanced overall system robustness for supplier workflow automation.

Projects

Banking System Application

December 2025

- Secured application resources as measured by 100% authentication coverage across backend endpoints by implementing Spring Security with JWT-based stateless validation filters.
- Enabled core financial operations as measured by the reliable execution of user signups, fund transfers, and profile updates by engineering a Java Spring Boot backend exposing 7 RESTful API endpoints.
- Facilitated real-time user interaction as measured by immediate interface updates for transaction history and balances by developing a responsive Angular frontend that consumes backend services.
- Ensured data integrity and scalability as measured by the consistent persistence of all transaction records by designing a modular Controller-Service-DAO architecture using Spring Data JPA.

Serenade – Music Player (Electron, React)

February 2025

- Led 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 and strong user-centric design.

Edustream-An Online Learning Platform

March 2024

- Engineered 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.
- Constructed RESTful APIs for core features like Course Management (CRUD) and lecture progress tracking, resulting in a 20% improvement in user retention tracking data.
- Built a RESTful API layer for persistence of user and course data, enabling students to track lecture progress with 100% completion data integrity.
- Created a 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)