

Mohan Chaturvedi

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Education

Vellore Institute of Technology , B.Tech Computer Science and Engineering(Cloud Computing and Automation)	2022 - 2026
• CGPA: 7.75	
City Montessori School , Indian School Certificate (ISC)	2022
• Grade: 92%	
City Montessori School , Indian Certificate of Secondary Education (ICSE)	2020
• Grade: 92%	

Technical Skills

Languages: Java, SQL, JavaScript, Python

Frameworks & Tools: React, MongoDB, MySQL, Spring Boot, REST API

Technologies: Amazon Web Services (AWS), Git

Projects

Banking System Application(Java, Spring Boot, Angular, MySQL)	December 2025
<ul style="list-style-type: none">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.Orchestrated real-time user interface updates for account balances and transaction history by engineering a responsive Angular frontend consuming backend services, leading to a 15% decrease in page load times.Achieved 100% data transactional integrity and zero persistence errors by architecting a modular Controller-Service-DAO backend structure using Spring Data JPA for robust ACID compliance	
Serenade – Music Player (TypeScript, React, Python, Flask, Express)	February 2025
<ul style="list-style-type: none">Orchestrated the development of a cross-platform desktop application, leveraging Electron to wrap a responsive React frontend and ensuring consistent native performance across Windows and Linux.Engineered a feature-rich media interface capable of handling complex user workflows, including concurrent downloads and real-time audio visualization, which reduced reported edge-case errors by 15%.Architected a robust Inter-Process Communication (IPC) bridge to seamlessly integrate the Python backend with the Electron frontend, reducing download latency by 40% compared to traditional API polling.Recognized as a winning project at FOSSHack 2025, demonstrating innovation and strong user-centric design.	
Edustream-Backend API(Java, Spring Boot, PostgreSQL)	March 2024
<ul style="list-style-type: none">Engineered a scalable backend architecture as measured by the strict separation of concerns across 4 distinct application layers (Controller, Service, Repository, Entity) by developing a RESTful API using Spring Boot 3.2 and Java 17.Established secure stateless system access as measured by zero server-side session storage requirements by implementing JWT authentication with custom security filter chains and Spring Security.Facilitated granular content discovery as measured by the ability to perform case-insensitive partial matches across 5 distinct metadata fields (titles, descriptions, and content) by writing custom JPQL queries within Spring Data JPA.Orchestrated reliable cloud availability as measured by the seamless configuration switch between 2 database environments (local H2 vs. production PostgreSQL) by utilizing dynamic Spring Profiles and deploying to Railway.	

Methodologies & Certifications

Methodologies: SOLID Principles, Object-Oriented Programing(OOP), Problem Solving and Data Structures.

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

Achievements & Recognition

- FOSSHack2025 Winner:** Recognized for the project Serenade– Music Player.