



Mandar Joshi

Software developer

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EDUCATION

B.Tech

Vellore Institute Of Technology, Vellore.

07/2024 – present
Vellore, India

PROFILE

I'm *Mandar Joshi*, a second-year undergraduate student at VIT Vellore passionate about software engineering and emerging technologies like machine learning and AI. Developing a solid foundation in programming and application development, and looking for opportunities as a Software Engineer/Developer to gain industry exposure and contribute to meaningful projects.

SKILLS

- Python
- NumPY
- Git/Github
- Java
- PyTorch
- Socket.io
- MERN Stack
- Pandas
- Javascript

PROJECTS

YoChat — Real-Time Chat Web Application

- **Objective:** Developed a full-stack web application to enable real-time user communication through chat rooms — supporting both group and private chats — aiming to provide a lightweight, easy-access platform for connecting users without complicated registrations or installations.
- **What I Built:** Implemented front-end and back-end logic to support chat room creation, joining, and messaging, as well as user nickname-based access (no sign-up/login required). Ensured basic real-time interactivity and smooth user experience.
- **Technologies & Skills:** Employed modern web technologies (front-end UI, real-time data handling, server-side backend) to create a seamless chat interface — reinforcing my skills in web development, real-time communication, and user-focused design.
- **Impact & Learning:** Through this project, I gained hands-on experience in designing and implementing a web service that can host multiple users, manage chat sessions, and deliver real-time communication. It strengthened my problem-solving, full-stack development, and project management capabilities.
- **Relevance:** This project aligns with my interest in software development and AI/ML (as next steps, I plan to integrate ML-driven features like smart moderation or chat-bots). It demonstrates my initiative, technical ability, and readiness for a Software Engineer/Developer role.

Autonomous API Version Migration System

Developed an intelligent system designed to automate the migration of applications across evolving API versions, reducing manual effort and minimizing integration errors. The system analyzes API changes, maps deprecated or modified endpoints to their updated versions, and generates migration-ready code or recommendations.

Implemented core features such as API change detection, compatibility checks, automated mapping logic, and validation workflows. This project strengthened my understanding of backend development, API lifecycle management, and system automation — key areas in modern software engineering.

Technologies & Skills: Backend engineering, API design and versioning, automation workflows, code generation logic, software architecture, and documentation.

Impact: Significantly improves developer productivity by streamlining API upgrades, ensuring cleaner transitions between versions, and reducing technical debt in long-term software development.

Password Vault

Developed a secure password management application that allows users to store, retrieve, and manage their credentials safely and efficiently. The system encrypts stored passwords and provides a user-friendly interface for easy access, focusing on both usability and security.

Implemented robust backend logic and data handling to ensure encrypted storage, safe retrieval, and secure user data management. This project enhanced my experience in security-conscious software design, encryption/decryption workflows, data protection best practices, and user data management.

Technologies & Skills: Secure storage design, encryption/decryption algorithms, backend engineering, data handling, user credential management, and secure software architecture.

Impact: It demonstrates my ability to build reliable, secure applications with a strong emphasis on data privacy — a key competency for software engineering roles that involve handling sensitive information.

COURSES

Cohort 3.0 - Web Development

100xDevs

12/2024 – Present

Completed the web-development training program “100xDevs Cohort 3.0,” gaining hands-on experience in building responsive and dynamic websites, understanding core front-end and back-end technologies, and collaborating with peers on real-world-style projects.

INTERESTS

AI, ML and WEB3 — • Deeply interested in **Artificial Intelligence**, **Machine Learning**, and **Web3** technologies. I enjoy exploring how intelligent algorithms can automate decision-making, how machine learning models can uncover patterns in data, and how decentralized systems like blockchain can enable trustless, transparent applications. I actively follow advancements in these fields, experiment with small projects, and aim to integrate these technologies into real-world software solutions.