

NILESHKUMAR YADAV

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Education

Shree L.R. Tiwari College of Engineering

Bachelor of Engineering in Computer Science

Jan 2021 – June 2025

Grade: 8.4/10

Technical Skills

Programming Languages: C++, Python, JavaScript, HTML/CSS
Databases: MySQL, PostgreSQL, Prisma, Firebase, MongoDB
Technologies/Frameworks: ReactJS, NextJS, Tailwind CSS, NodeJS, ExpressJS
Tools: Linux, Vs Code, GitHub, WordPress

Relevant Coursework

- Data Structures
- Database Management System
- Computer Networks
- Algorithms Analysis
- Operating System
- Big Data Analytics

Experience

Android Developer Intern

June 2023 – July 2023

In-House Internship

Mumbai, India

- Engineered a real-time chat application for Android devices, implementing features such as user authentication, message encryption, and push notifications.
- Utilized Firebase for backend services, including **Firebase Realtime Database** for storing and syncing messages, **Firebase Authentication** for user login and registration, and **Firebase Cloud Messaging** for push notification

Projects

Twitter – Full-Stack Social Media Platform | MERN

October 2024

- Developed a **complete Twitter clone** using the **MERN stack** (MongoDB, Express, React, Node.js) to replicate core Twitter functionalities such as tweeting, following, and liking posts.
- Implemented **user authentication** with **JWT** (JSON Web Tokens) for secure login and session management, ensuring secure access to the platform.
- Designed and developed features such as **tweet creation, replies, likes, retweets, and hashtags**, enabling users to engage with content dynamically.
- Built a **real-time notification system** using **Socket.IO** for instant updates on new followers, likes, and mentions
- Implemented **search functionality** with MongoDB indexes to quickly find tweets, users, and hashtags, ensuring a fast and responsive search experience.

Real-Time Chat Application – Full-Stack Messaging Platform | React, Firebase

November 2024

- Developed a **real-time chat application** using **React** for the frontend and **Firebase** for the backend, enabling users to seamlessly send and receive messages with instant updates.
- Implemented **Firebase Authentication** for secure login and user management, supporting email/password and social logins (Google, Facebook).
- Integrated **Firebase Firestore** for real-time message storage and synchronization, ensuring instant message delivery and a smooth user experience across multiple devices.

AI-Powered Full-Stack Chat Application | MERN

December 2024

- Built a **secure and scalable AI chatbot** using the **MERN stack** (MongoDB, Express, React, Node.js) and **TypeScript**, allowing users to interact with AI-driven conversations powered by **OpenAI integration**.
- Implemented an **advanced user authentication and authorization system** using **JWT tokens** and **HTTP-only cookies**, protecting routes and validating user sessions with **express-validator** for enhanced security.
- Designed a **modern, responsive chat interface** with **React (Vite)** and **Material-UI**, storing user chats in **MongoDB** and creating a seamless user experience with a production-ready SaaS application structure.

Leadership / Extracurricular

College Cricket Team

Captain

- Led the college cricket team in inter-college tournament conducted by University Of Mumbai.

DLLE (Department of Lifelong Learning and Extension)

Active member

- Actively participated in various community service initiatives, contributing to social awareness programs and outreach activities organized by the DLLE.