

# VASU K. AGHERA

STUDENT | NIRMA UNIVERSITY | AHMEDABAD

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## EDUCATION

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### Bachelor of Technology in Computer Science and Engineering

Institute of Technology, Nirma University, Ahmedabad

2022 – 2026

cgpa – 7.69

## PROJECTS

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### Full Stack MERN Web Application :

#### ClimbAlgoMountain – Gamified DSA Learning Platform

- Gamified learning for DSA topics with level-based progression, achievements, and rewards.
- Comprehensive user features: authentication, profile management, leaderboard, and analytics dashboard.
- Social learning tools: community forum, friends system, and integrated chatbot for instant help.
- Premium content access and secure payment integration, all in a child-friendly, accessible UI.

([🔗Repo Link](#))

#### Doctor Appointment Booking System

- Developed a full-stack Hospital Management and Appointment System with secure multi-role authentication (Admin, Doctor, Patient), enabling appointment booking, patient/doctor record management, and real-time status updates.
- Integrated features such as email notifications, cloud image uploads, analytics dashboards, and robust role-based access control for efficient healthcare operations.

([🔗Repo Link](#))

#### AI-Powered Code Review

- Built a web app that provides instant, AI-powered code review and feedback, allowing users to submit code and receive actionable suggestions for improvements, best practices, and potential issues through a modern, user-friendly interface.

([🔗Repo Link](#))

**Other Mini Projects:** Authentication App ▪ Crypto Price Tracker ▪ Tic-Tac-Toe Game ▪ Razorpay Tailwind Integration

#### Financial Data Extractor - Team Size : 3

- Engineered an AI-driven document chat application using RAG techniques to process and query PDF files for financial data extraction.
- Incorporated Google Generative AI and Groq APIs for embeddings, FAISS for vector storage, and Streamlit for a user-friendly interface.

([🔗Repo Link](#))

#### RideEase – OOP-Based Ride Booking System in C++

- Implemented a C++ ride booking system with user registration, ride requests, fare calculation, trip management, wallet recharge, driver rating, regex-based validation, and a console UI using OOP principles.

([🔗Repo Link](#))

## EXPERIENCE

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### MERN Stack Web Development Intern

may – Jun 2025

- Built full-featured frontend using React.js with responsive design, protected routes, and reusable components.
- Created backend using Node.js, Express, and MongoDB with user auth, data models, and secure API routes.

## CODE PROFILES

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[LeetCode \(Knight\)](#) – Rating : 1882

[Codeforces \(Pupil\)](#) – Rating : 1282

## SKILLS

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- **Languages:** C/C++, Java, python, JavaScript
- **Libraries:** C++ STL
- **Frameworks :** MERN Stack (MongoDB, Express.js, React.js, Node.js, Tailwind CSS)
- **Core CS Subjects:** OOPs, Operating Systems, DBMS
- **System Design:** Designing scalable backend systems, API structuring, database schema planning
- **Tools:** Git, GitHub, MySQL
- **Soft Skills:** Analytical thinking, Problem solving, Consistency, Intellectual curiosity, Adaptability