

VASU K. AGHERA

STUDENT | NIRMA UNIVERSITY | AHMEDABAD

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Education

Bachelor of Technology in Computer Science and Engineering

Institute of Technology, Nirma University, Ahmedabad | 2026

CGPA: 7.75/10

Relevant Coursework: Full-Stack Development, Data Structures & Algorithms, Operating System, Database Management System, Object-Oriented Programming, Design Analysis and Algorithms

Technical Projects

ClimbAlgoMountain – Gamified DSA Learning Platform | MERN Stack

[GitHub](#)

- Engineered a gamified learning platform with **12 interactive DSA games**, level-based progression, achievements, and rewards
- Integrated secure user authentication, profile management, leaderboard, and analytics dashboard
- Embedded 3 social features: community forum, friends system, and chatbot for interactive learning

Doctor Appointment Booking System | MERN Stack

[GitHub](#)

- Developed a 2-role appointment management system (Admin, Patient)
- Managed bookings and records for **6 doctor specialties** with analytics dashboard and payment integration

AI-Powered Code Review Web App

[GitHub](#)

- Delivered AI-powered code analysis using **Google Gemini AI 2.0 Flash** for intelligent, real-time code reviews
- Analyzed up to 400 lines of submitted code and delivered AI-driven feedback within 10 seconds, providing actionable suggestions to enhance code quality, performance, and maintainability

Financial Data Extractor – Team Size: 3 | RAG, Streamlit, FAISS

[GitHub](#)

- Built an AI-driven document chat app to process and query PDFs for financial data
- Integrated Google Generative AI, Groq APIs, FAISS, and Streamlit for embeddings and interface

RideEase – Ride Booking System | C++ OOP

[GitHub](#)

- Implemented a console-based ride booking system applying all 4 OOP concepts
- Facilitated Rider/Driver registration, ride requests, trip management (start/complete/cancel with unique IDs), fare calculation, wallet recharge, and driver ratings (1-5)

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

Professional Experience

MERN Stack Web Development Intern at iTechBrains Intelligent Software Solutions

May – Jun 2025

- Constructed a full-stack e-commerce web application with React + Vite frontend and secure authentication
- Streamlined the shopping cart and checkout process for enhanced user experience
- Implemented an admin panel for product and order management, improving operational efficiency

Coding Profiles

LeetCode: Knight (Rating 1882)

Codeforces: Pupil (Rating 1282)

Technical Skills

Programming Languages: C++ , JavaScript

Algorithmic Skills: Data Structures Algorithms , Competitive Programming (Codeforces, LeetCode)

Frameworks & Libraries: MERN Stack (MongoDB, Express.js, React.js, Node.js), Tailwind CSS

Core CS : Object-Oriented Programming (OOP) , Operating Systems (OS) , Database Management Systems (DBMS)

Databases: MongoDB, MySQL

System Design: Backend system design, API structuring, database schema planning

Certifications

Full-Stack Web Development

System Design Masterclass