

Neel Dedkawala

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Profile

Aspiring software developer and B.Tech student skilled in Python, Java, C++, Software Engineering, Data Structures, and Cloud Computing. Experienced in user-focused design, problem-solving, and creative solutions. Led NASA Space Apps as a volunteer lead, delivering impactful web and mobile applications.

Education

Nirma University 2023 – Present
Bachelor of Technology (B.TECH) in Computer Science and Engineering
Ahmedabad, Gujarat
CGPA: 9

Tapi Diploma Engg. College, under Gujarat Technological University 2020 – 2023
Diploma in Computer Engineering
Surat, Gujarat
CGPA: 9.87

Projects

TicketBus:Android App Project

- Developed an Android application named TicketBus with real-time updates using Firebase Realtime Database.
- Implemented a Map system with MapBox for bus stops, routes, and directions.
- Integrated a Ticket Booking feature with QR code scanning for secure, single-use tickets.
- Tech Stack: Android, Firebase Realtime Database, MapBox, QR Code Scanning, PIN Security, Modern UI/UX Design.

Edtech Platform (Hackathon Project April 2024, Nirma University)

- Developed an e-learning platform with video content, transcript generation, and quizzes, increasing user engagement by **20%**.
- Enabled users to resume videos by clicking on transcript keywords, improving usability by **15%**.
- Tech Stack: HTML, CSS, JavaScript, Flask, Assembly.ai, Google Gemini APIs.

PharmaSphere Website

- Co-founded PharmaSphere, an online learning platform for pharmacy students.
- Developed features for finding resources and study-related materials.
- Implemented a Quiz Generator with a modern, responsive UI, featuring score tracking and detailed answer explanations.
- Integrated a Drug Interaction Checker that provides drug descriptions, common interacting drugs, and general precautions.
- Tech Stack: HTML, CSS, JS; Live Hosted

Research Contribution

An Analysis of Public Transportation for Bus-Based Commuting in India

Chapter Contribution: "Blockchain and AI Amalgamation for IoT Applications beyond 5G"

Position of Responsibility

NASA Space Apps Challenge Surat Volunteer Lead

- Managed event logistics and created high-quality promotional materials, including posters and social media graphics.
- Developed outreach content that boosted event visibility and inspired participants.
- Facilitated workshops and guided teams on space projects.

Skills

Languages and Technologies: C, C++, Python, Java, Data Structures, Cloud Computing, JavaScript, HTML, CSS

Frameworks: React Native, WebGL, Three.js

Databases: Firebase, MongoDB, SQL

Tools: GitHub, Google Colab, Visual Studio Code, Android Studio, Blender, Figma, Adobe Illustrator, Adobe Photoshop

Designing: Typography, Layout Design, Branding, UI/UX principles, Responsive Design

Soft Skills: Programmer, Researcher, Video Editor, Graphics Designer, Collaborator, Adaptable, Persistent, Initiator