Neha Patel

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Projects

DA-visual
Visualize Data Structures and Algorithms | React, CSS, JavaScript, Node.js, Express.js, MongoDB | June 2024

- Developed an educational tool emphasizing visualization for data structures and algorithms.
- Included quizzes for self-assessment and progress tracking, reinforcing learning through visualization.
- For educators to utilize visual aids in lectures, promoting better comprehension of abstract concepts.

RituCycle - Caring for Women's Hygiene
Empowering and supporting women through their menstrual cycles | Flutter, Dart, JavaScript, Node.js | June 2024

- Period Tracker: Track cycles, predict ovulation, and set reminders.
- PCOD/PCOS Management: Personalized diet plans and exercise routines.
- Yoga: AI pose detection for correct practice.
- Locator: Find nearby hospitals and medicine shops.
- Tutorials: Educational guides for menstrual products.
- Motivational Quotes: Daily uplifting messages.

E-Learning
Online Classroom | PHP, JavaScript, HTML, CSS | March 2022

- Enhanced student engagement and improved learning outcomes.
- Features include class creation, document submission, quiz management, and homework tracking.
- Implemented real-time chat functionality for instant communication. Ensured tracking of each student's progress.

Bus Reservation REST API
| Java, Spring Boot | January 2024

- Developed a REST API for bus reservations with Java and Spring Boot.
- Implemented essential features: ticket booking, bus and agency management, and booking history display.
- Ensured scalability and security with robust validation, error handling, and authentication integration.

Skills

- **Backend:** Python, Java, Node.js, Django, Spring Boot, Spring MVC, Express.js, Firebase, ASP.net
- **Frontend:** HTML/CSS, JavaScript, React, Redux, TypeScript, Flutter, Bootstrap
- **Languages:** Python, Java, C, C++, HTML/CSS, JavaScript, SQL, TypeScript, Dart, C
- **Developer Tools:** VS Code, Eclipse, Jupyter Notebook, phpMyAdmin, Oracle, Postman, Android Studio
- **Technologies/Frameworks:** Django, Git, GitHub, Spring Boot, Spring MVC, Flutter
- **Soft Skills:** Communication, Problem Solving, Critical Thinking, Leadership

Education

Dharmsinh Desai University, Nadiad

- B.Tech (Computer Engineering), 2026, CGPA: 9.02

Narayan Vidhyalay

- High School, 91.23%

Other Skills

- President of CSI (Computer Society Of India) club; hosted and organized numerous events, including serving as a speaker for inheritance and polymorphism events.
- Achievements: 1510+ rating on LeetCode, solved 800+ problems across various platforms, participated in 5+ hackathons.
- Open Source Contributor: Participated in GirlScript Summer of Code.

Courses

- Data Structures and Algorithms (DSA)
- Database Management Systems (DBMS)
- Object-Oriented Programming (OOP)
- Operating Systems (OS)
- Principles of Software Design (SD)
- Data Analysis (DA)
- Machine Learning (ML)
- Computer Networks (CN)