

Dev Desai

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Education

Pandit Deendayal Energy University (PDEU)

Gandhinagar, Gujarat

Bachelor of Technology in Computer Science and Engineering

Aug 2024 – May 2028

- CGPA: **8.93** / 10.0 — consistently among top performers in the department
- Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Object-Oriented Programming

Experience

Code-O-Logic

Remote

Founding Backend Engineer

Jan 2026 – Present

- Architected and shipped a **WhatsApp Business automation system** handling **100+ daily client interactions**, cutting manual response overhead by automating end-to-end messaging workflows using the WhatsApp Cloud API.
- Engineered a **cross-platform delivery management app** (React + Capacitor + Node.js) with real-time GPS tracking and driver workflow automation, deployed to a live client with sub-second location update latency.
- Designed a **multi-service backend architecture** integrating WhatsApp, Google Maps, and AI-powered APIs; enforced **JWT + RBAC** security across all service endpoints to isolate client data and control access.

Web Development Committee (WDC), PDEU

Gandhinagar, Gujarat

Backend Development Intern

Dec 2025 – Present

- Built **20+ production RESTful APIs** (Node.js + Express.js) for a faculty-student platform serving **1,500+ active users**, covering authentication, academic workflows, and administrative data management.
- Reduced average API response time to **under 200ms** through targeted query optimization and indexing strategies on MongoDB, improving perceived platform performance for concurrent users.
- Defined API contracts and collaborated with frontend teams in an **Agile sprint workflow**, resolving cross-layer data consistency issues and reducing integration bugs by enforcing strict schema validation.

Projects

Bank Transfer API | TypeScript, Express, PostgreSQL, Docker, k6 | 🐙 GitHub

- Leveraged PostgreSQL ACID transactions, **row-level locking (SELECT FOR UPDATE)**, and deterministic lock ordering to guarantee transfer consistency and prevent double-spending under concurrent workloads.
- Eliminated dual-write inconsistencies by implementing the **Transactional Outbox Pattern** with asynchronous background processing and at-least-once event delivery.
- Stress-tested the API with **k6 (400 concurrent users)**, sustaining **325 RPS**, processing **~40K requests**, maintaining **0% errors**, and preserving balance correctness under load.
- Built **JWT-based authentication**, bcrypt password hashing, and API-wide **idempotency keys** to safely handle retries without duplicate transfers.

FreelanceHub | MERN Stack, JWT, REST APIs | 🐙 GitHub

- Built a **full-stack freelancing marketplace** with job posting, competitive bidding, and profile management; designed the data model to support multiple concurrent bids per job without race conditions.
- Architected **domain-separated REST APIs** (users, jobs, bids) with clean service boundaries, enabling independent development and reducing cross-module coupling.
- Secured all routes with **JWT-based authentication** and role-based access control (RBAC), enforcing distinct permission sets for clients and freelancers across every API operation.

Technical Skills

Languages: C, C++, Python, JavaScript, TypeScript

Backend: Node.js, Express.js, REST APIs, JWT, RBAC, Microservices, WebSockets

Frontend: React, Capacitor, React Router, React Hook Form, HTML5, CSS3

Databases: MongoDB, MySQL, Redis, Supabase (SQL & NoSQL)

DevOps & Tools: Docker, Git, GitHub, Render, Vercel, Postman, Swagger, Jest

Core Concepts: Data Structures & Algorithms, System Design, OOP, API Security, Agile