

# Rohit Dhakal

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## PROFESSIONAL SUMMARY

Result-oriented Computer Science undergraduate with hands-on experience in building scalable backend systems, REST APIs, and full-stack applications using MERN, TypeScript, and cloud services. Strong foundation in data structures, algorithms, and software architecture. Passionate about backend engineering, AI-driven automation, and building production-ready systems with clean code, security best practices, and high reliability.

## SKILLS

**Languages:** TypeScript, JavaScript, Java, SQL

**Frameworks:** React.js, Node.js, Express.js

**Databases:** MongoDB, Firebase

**Tools:** Git, GitHub, Vercel, Render, Postman, Clerk, ImageKit

**CS Fundamentals:** OOPS, DSA, Operating Systems, System Design (Basics)

**Soft Skills:** Problem-solving, Communication, Time management, Collaboration

## EDUCATION

### B.Tech in Computer Science and Engineering

2022 – 2026

*Galgotias University*

- Recent Semester SGPA: 8.54/10

Class 12 (Intermediate), CBSE

2022

*Ram Kishan Institute*

Class 10, CBSE

2020

*Ram Kishan Institute*

## PROJECTS

### AI-Powered Health Platform (MERN + GenAI)

MERN, TypeScript, Gemini API, JWT Auth

- Engineered an **AI-driven nutrition parser** using Gemini API, converting unstructured inputs (e.g., “I ran 5k”) into strict JSON schemas — reducing user entry time by **60%**.
- Architected a **type-safe REST API** with Node.js & TypeScript, including custom validation middleware and stateless JWT auth for protection of sensitive health metrics.
- Deployed a **cloud-native split architecture** (Vercel + Render), improving system reliability and response consistency across environments.
- **Live Demo:** [Live Link](#) — **GitHub:** [Source Code](#)

### High-Concurrency URL Shortener with Redis Caching (ShrinkIt)

Node.js, TypeScript, MongoDB, Redis

- Built a **high-throughput URL shortening service** using the Cache-Aside pattern to offload reads to Redis.
- Achieved a **40% reduction in database read latency** and near-instant redirects on cache hits.
- Designed idempotent REST APIs covering URL validation, analytics tracking, and duplicate prevention using `shortid`.
- Utilized lightweight containerization to isolate the caching layer without increasing deployment complexity.

### GenAI Presentation Engine (React & Gemini)

React, Firebase, Gemini API, Node.js, Clerk

- Engineered an automated **AI-first slide generation system** with editable content and watermark-free PPT export.
- Improved template consistency and reduced generation latency by **35%** through optimized Gemini prompting.
- Used Firebase for real-time sync and Clerk for secure user authentication across multi-device usage.
- Deployed on Vercel with CI/CD for automated and stable production rollouts.

## ACHIEVEMENTS

- Solved **130+** **LeetCode problems**, strengthening algorithms and problem-solving.
- Built and deployed **multiple production-level applications** with modern MERN architecture.