

# 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>B.Tech in Computer Science and Engineering</b> <i>Galgotias University</i>	2022 – 2026
• <b>Recent Semester SGPA: 8.54/10</b>	
<b>Class 12 (Intermediate), CBSE</b> <i>Ram Kishan Institute</i>	2022
<b>Class 10, CBSE</b> <i>Ram Kishan Institute</i>	2020

## 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.