

Kuldeep Kohli

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Career Objective

- Computer Science undergraduate with strong foundations in **data structures, backend systems, and scalable API design**. Passionate about building **high-performance, distributed systems** and seeking SWE Intern / New Grad roles to solve real-world problems at scale.

Education

Graphic Era Hill University, Dehradun

B.Tech in Computer Science & Engineering

2023 - 2027

8.35/10 CGPA

Technical Skills

Languages: C++, JavaScript, SQL

Backend: Node.js, Express.js, REST APIs, JWT

Frontend: React.js, TailwindCSS, HTML, CSS

Databases: PostgreSQL, MongoDB, MySQL (Indexing, Query Optimization)

Distributed Systems: Redis, WebSockets

DevOps & Tools: Git, Postman

Core CS Strengths

- Strong understanding of **Data Structures, Algorithms, Operating Systems, DBMS, and Computer Networks**.

Projects

AI Diabetes Diagnostic and consultation system

[Source Code](#)

- Engineered a health platform using **React** and **FastAPI** to facilitate asynchronous communication between the UI and a machine learning engine.
- Integrated a **Scikit-learn** diagnostic model into a production backend, implementing data preprocessing and feature engineering for real-time risk predictions.
- Architected a consultation layer using the **Google Gemini API** to generate personalized preventative care strategies and symptom analysis based on model outputs.
- Implemented strict data validation for clinical inputs and structured the backend with comprehensive error handling to ensure high API uptime and robust UX.
- Containerized services using **Docker**.

Flight Reservation System

[Source Code](#)

- A full-stack platform allowing users to **search flights**, check **seat availability**, and make **secure online bookings**.
- Provides an **admin dashboard** for managing airports, aircraft, and flight schedules with real-time validation.
- Optimized **MySQL schema** and **indexed queries** for fast data retrieval & low-latency transactions.
- Implements **role-based access control**, secure APIs, and session handling for safe authenticated operations.

MapMate: Your travel planner (Travel planning website)

[Source Code](#)

- Built a travel planning engine with **Node.js** and the **OpenRouteService API** that automates route optimization for up to 20 locations by analyzing real-time distance and travel time data.
- Integrated the **Foursquare Places API** to provide users with tailored recommendations for local attractions, hotels, and dining, using custom filtering to match user preferences.
- Developed a journey configuration tool that calculates realistic exploration times by factoring in essential breaks for sleep and personal downtime.
- Added a fuel cost estimator for road trips and utilized **jsPDF** to enable users to download their complete, optimized itineraries as professional PDF documents

Achievements

- Solved **250+ algorithmic problems** across LeetCode and GeeksforGeeks, strengthening problem-solving and data structure fundamentals.