



# SAGAR KUMAR SAH

Roll No.:2502101018

M.Tech

Computer Science and Engineering

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GitHub

LeetCode(450+)

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## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Tech. CSE	Indian Institute of Technology Indore	7.65	2025-Present
B.Tech. CSE	Delhi Technological University	8.49	2020 – 2024
Senior Secondary	National Examination Board	85.75%	2019

## EXPERIENCE

- Innovaccer** Jul. 2024 - Dec. 2024  
*Application Engineering Intern* Noida, India
  - Built a custom-query API used by 200+ admins to CRUD 10K+ MongoDB records with RBAC, query validation and CSV export increased admin efficiency by 40%.
  - Engineered a HIPAA-compliant collaborative notes system adopted by millions of patients and thousands of care managers, improving documentation workflows and raising patient engagement by 150%.
  - Redesigned a customer-specific Tickets View in the Workqueue to automate complex filtering for contact-center agents boosted productivity 65%, enabled 34% more calls/day and cut manual triage time 96%.
  - Consolidated three Risk APIs into a single cache-enabled API, improving page load times 63%, reducing latency 30%, and simplifying risk-data management.
- M.N Software Pvt.Ltd** Jun. 2023 - Jul. 2023  
*ReactJS Intern* Kathmandu, Nepal
  - Tackled frontend scalability challenges in a fast-paced agile environment, collaborating with an 8-member team to deliver modular, high-performance UI components across multiple app modules.
  - Engineered a suite of dynamic and reusable React components with TypeScript type safety, streamlining development workflows and reducing UI-related bugs by 86%.
  - Led performance tuning initiatives by identifying render bottlenecks and implementing code-splitting, lazy loading, and memoization, resulting in a 25% faster load time and 78% improved responsiveness.

## PROJECTS

- Roamio Wanderly** 2025-2026  
*Intelligent Tourism Recommendation System for Nepal* Link
  - Engineered a content-based recommendation engine (K-Means  $k=5$  + cosine similarity) on a self-surveyed 1,058-record dataset, delivering Top-10 results in <2s across 5 filters with 100% cold-start support.
  - Pre-processed 2,700+ raw field-survey entries into normalized ML-ready schemas (places, hotels, transport, events), improving visibility of 150+ under-represented destinations by 40%.
  - Built a modular full-stack system (React.js + Flask Blueprints + SQLAlchemy) with 20+ REST APIs covering 1,057 destinations / 718 hotels / 512 restaurants, reducing platform dependency by 50%.
  - Architected dual-layer auth (Clerk API + JWT/bcrypt, 1hr/7-day rotation) with ORM SQL injection prevention, CORS & XSS protection, and an admin dashboard with real-time analytics across 4 data entities.
- EmployIT** 2024  
*MERN Based Project* Github
  - Built a MERN stack job-seeking platform for job seekers and employers, simulating real-world operations with JWT security.

## TECHNICAL SKILLS

- Programming:** JavaScript, Python, C, C++, SQL
- Databases :** MongoDB, PostgreSQL, MySQL
- Tools/Frameworks:** ReactJs, NodeJs, Flask, FastAPI

## KEY COURSES TAKEN

- Systems & Programming:** Object Oriented Programming, Computer Networks, Data Structures and Algorithms
- Software Engineering:** Software Engineering, Database Management Systems

## ACHIEVEMENTS

- Prestigious HJBSS Scholarship**, fully funded opportunity to pursue M.Tech(CSE) at IIT Indore (Govt. of India) (2025)
- Prestigious ICCR Scholarship**, fully funded scholarship for B.Tech(CSE) — DTU, Delhi (Govt. of India) (2020-2024)