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Nasim Sheikh

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Education

- **Indian Institute of Information Technology (IIITN)** — Nagpur, India
  Bachelors in Computer Science; GPA: 9.64/10 — *Nov. 2022 – June. 2026*

Projects

- **Airline Ticket Booking System Backend**:
  - **Developed a microservices-based airline ticket booking system with RESTful API design for flight booking services.**:
  - **Used JWT for secure authentication and integrated RabbitMQ for load balancing.**:
  - **Used an API Gateway for scalable and maintainable request routing.**:

  Tech: Node.js, JavaScript, Express (2024)

- **Bail Reckoner – Automated Bail Application System. SIH(2024) Problem**:
  - **Developed an automated system that generates customized bail forms using machine learning.**:
  - **Integrated a risk assessment module to predict flight risk and likelihood of evidence tampering.**:
  - **Created a user-friendly interface for legal aid providers, judicial authorities, and undertrial prisoners.**:
  - **Utilized AI/ML models to categorize cases based on offense type and imprisonment duration.**:

  Tech: Node.js, Express.js, React.js, Flutter, MongoDB, Machine Learning (Ongoing)

- **Rubik's Cube Solver – Korf's IDA* Algorithm**:
  - **Modeled a virtual Rubik's Cube (3x3) in 3 different models/classes using C++ data structures.**:
  - **Achieved solving time of under 3 seconds for a Rubik's Cube jumbled 3 times using BFS, DFS, and IDDFS algorithms.**:
  - **Implemented Korf's IDA* Algorithm to achieve solving time under 30 seconds for a Rubik's Cube jumbled 13 times.**:

  Tech: C++, OOPS (2024)

Skills and Summary

- **Languages**: Python, JavaScript, C++, SQL

- **Frameworks/Technology**: React.js, Node.js, RabbitMQ,REST Api

- **Soft Skills**: Leadership, Public Speaking, Event Management, Team-Work

Awards and Honors

- **Specialist on Codeforces**: Codeforces ID: Nasim cc

- **4* on CodeChef**: CodeChef ID: Nasim cf

- **Knight on LeetCode (2040+)**: LeetCode ID: Nasim lc

- **Cleared Internal Hackathon of Smart India Hackathon (SIH)**: Became one of the top 45 teams to clear the internal hackathon.

Key Courses Taken

- **Mathematics**: Introduction to Linear Algebra, Basic Calculus, Discrete Mathematics and Graph Theory, Probability & Statistics

- **Computer Science**: Design and Analysis of Algorithms, Database Management System, Operating System, Software Engineering