

# HARSH RAJ

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<https://leetcode.com/u/HarshxRaze/>   <https://github.com/harshxraze>

## Education

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### Siddaganga Institute Of Technology

Bachelor of Engineering in Computer Science and Engineering (CGPA: 9.33)

September 2023 - Present

Tumkur, Karnataka

### Senior Secondary, CBSE

Percentage: 88.8%

June 2022

Patna, Bihar

### Secondary, CBSE

Percentage: 96.7%

June 2020

Patna, Bihar

## Technical Skills

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**Systems And Low-Level Skills:** C, C++, Data Structures And Algorithms, Operating Systems, Compiler Design

**CS Fundamentals:** Database Management System, OOPs

**Web Development:** HTML, CSS, Javascript

**Frameworks/Libraries:** Bootstrap, Tailwind CSS, Node.js, React.js

**Database:** MongoDB, MySQL

**Developer Tools:** Visual Studio Code, Git, Github, Postman

**Soft skills:** Event Management, Communication

## Projects

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### CPU Scheduling And Process Simulator

- Implemented a custom simulator for OS scheduling algorithms (Round Robin, FCFS, SJF) using C++.
- Analyzed context switching, turnaround time, and CPU utilization.
- Tech stack used : C++

### Crime Prediction And Analysis

- Developed a scalable ML-driven crime prediction system by integrating a Flask-based Python model with a Node.js backend, enabling real-time crime forecasting through efficient API communication and clean data flow
- Implemented secure JWT authentication, modular service structure, and optimized prediction handling while ensuring smooth interaction between the ML service, backend, and React-based user interface.
- Tech stack used : React, Vite, TailwindCSS, Node.js, Express, MongoDB, JWT, Python (pandas, scikit-learn), Flask, Axios.

### Group Study Planner – Real-Time Collaborative Learning Platform

- Built a real-time group-based study platform enabling users to create, join, and manage study rooms with live chat, shared notes, file attachments, and member status tracking.
- Designed a scalable role-based group system with secure authentication, protected routes, and persistent data storage for messages, notes, and attachments.
- Tech stack used : React.js, Node.js, Express.js, MongoDB, Socket.IO, JWT Authentication, REST APIs, Multer, Tailwind CSS

## Achievements

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- \* Secured 1st position at robotics workshop.
- \* Completed 200+ questions on Leetcode.
- \* Completed C++ and DBMS course on Codechef.

## Position Of Responsibility

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### Avalanche - Feel Accelerated.

May 2024 - Present

Tumkur, Karnataka

Member

- \* It is an event management organization which conducts cultural events as well as technical workshops.
- \* GOONJ INDIA: Goonj is a non profit organization working to bring equity and dignity between cities and villages using under-utilised urban material. It undertakes disaster relief, humanitarian aid and community development in parts of 23 states across India. It focuses on clothing as a basic but unaddressed need.