

HARSH SINGH

Varanasi, Uttar Pradesh

+91 73079 25400 iharsh7781@gmail.com [Harsh Singh](#) [i-harsh-7](#)

Education

National Institute of Technology, Karnataka

Master of Computer Applications — GPA - 8.2

Aug. 2024 – May 2027

Surathkal, Karnataka

University of Allahabad

Bachelor of Computer Applications — GPA - 7.63

Sep. 2021 – May 2024

Prayagraj, Uttar Pradesh

Semstar Global School, Prayagraj

Class XII — Percentage - 80.2

2021

Prayagraj, Uttar Pradesh

Semstar Global School, Prayagraj

Class X — Percentage - 83.8

2019

Prayagraj, Uttar Pradesh

Relevant Coursework

- Data Structures and Algorithms
- Database Management
- Computer Networks
- Design and Analysis of Algorithms
- Operating System
- App Development

Projects

Sorting Visualizer App | Flutter, Android Studio

June 2025

- Built a cross-platform mobile app in Flutter to visualize classic sorting algorithms with real-time animations.
- Implemented Bubble, Selection, Insertion, Merge, Quick, and Heap Sort with step-by-step manual controls.
- Used Dart to animate bar charts with dynamic color indicators for pivots, comparisons, and swaps.
- Designed modular UI and structured the app for potential backend integration using Spring Boot.
- **Future Goals** : This includes user-defined input, animation speed control, and logging user interactions via backend APIs.

CryptoXSafe | Java, VS Code

November 2023

- Developed a secure console application for file content encryption and decryption using DES and RSA algorithms.
- Designed for basic secure file storage and transmission in local environments.
- Implemented a dual-layer encryption system to ensure robust data confidentiality and integrity.
- **Future Goals** : Expand to GUI-based application and add support for hybrid encryption and cloud integration for secure backups.

Technical Skills

Languages: Java, C, C++, SQL

Database: MySQL, SQL

Frameworks: Flutter, Spring Boot

Developer Tools: VS Code, IntelliJ, Android Studio

Technologies: Linux, GitHub

Competitive Programming

Leetcode: Solved 300+ questions on Leetcode

CodeChef: Rating - 1367

Achievements / Extracurricular

- **AIR 116** : Secured All India Rank 116 in **NIMCET 2024**
- **World Record** : Participated in the **Guinness World Record** -setting event for the Largest Practical Science Lesson with **4,272** students, held in Prayagraj, India (December 2019)