

# AMAN KUMAR

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| GitHub: [github.com/Amankr200](https://github.com/Amankr200) | Portfolio Website- <https://portfolio-new-aman.vercel.app/>

## EDUCATION

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**Guru Gobind Singh Indraprastha University, (BPIT) Delhi**  
BTech - Information Technology - **CGPA – 9.0**

2023-2027

Rohini, New Delhi

**Notre Dame School, Delhi**  
Class 12<sup>th</sup> – **PERCENT -90.2** - 2022

Class 10<sup>th</sup> – **PERCENT – 94** -2020

## TECHNICAL SKILLS

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**Languages:** C++, JavaScript

**Core CS:** Data Structures & Algorithms, Object-Oriented Programming, DBMS, OS ,CN fundamentals

**Backend:** Node.js, Express, REST APIs, WebSockets

**Frontend:** React.js

**Databases:** MongoDB

**Distributed Systems:** Redis

**DevOps:** Docker

**Tools:** Git, GitHub

## PROJECTS

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### 1) CodeBoard – Developer Portfolio & Global Leaderboard [LIVE WEBSITE](#)

- Built a MERN-based platform aggregating coding stats for **500+ students** across LeetCode, CodeChef, Codeforces, and GeeksForGeeks.
- Integrated APIs and custom scrapers to sync real-time problem-solving and contest data.
- Developed a **C Score ranking algorithm** based on problem volume, ratings, and consistency.
- Implemented automated data refresh every 6 hours using **node-cron**.
- Designed an interactive dashboard and real-time leaderboard with multi-parameter filtering.

**Tech Stack:** React.js, Node.js, Express.js, MongoDB, JWT, Recharts, Axios, Node-cron

### 2) SyncSphereDocs – Real-Time Collaborative Document System [LIVE WEBSITE](#)

- Built a scalable real-time document editor using **MERN** and **Socket.io**.
- Enabled low-latency sync with **WebSockets** and **Redis Pub/Sub** for horizontal scaling.
- Implemented **JWT** authentication, **Role-Based Access Control (Owner/Editor/Viewer)**, and **concurrency control**.
- Containerized services with **Docker** and **Docker Compose**.

**Tech Stack:** React.js, Node.js, Express, MongoDB, Socket.io, Redis, Docker

## EXPERIENCE

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### Defence Research and Development Organisation (DRDO)

Internship

June – July 2025

- Worked on a Host-Based Intrusion Detection System using OSSEC.
- Performed log analysis and debugging to reduce false positives and improve detection accuracy.
- Customized rules/decoders and integrated automated email alerts.

## ACHIEVEMENTS

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- Contributed to open-source projects during [Hacktoberfest](#) and [GirlScript Summer of Code \(Rank 506\)](#).
- Solved 500+ Problems on [Leetcode](#) (Rating -1550 ), [CodeChef](#) (Rating-1425 ).
- Participated in **10+ hackathons** across national and college levels.

## ROLES AND RESPONSIBILITIES

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- **National Service Scheme**, BPIT - Responsible for society operations