

AYUSH AGARWAL

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Ayush Agarwal

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EDUCATION

The LNM Institute of Information Technology

Btech Computer Science and Engineering

Delhi Public School

Higher Secondary, Percentage: 93%

Rajasthan, India

Dec. 2021 – May 2025

Ranchi, Jharkhand

April 2019 – May 2021

INTERNSHIP EXPERIENCE

Monarch Network Capital | Software Developer Intern

(Aug 2024 – Nov 2024)

- Helped automate and build a system for backtesting stock trading strategies using historical close price data.
- Developed **C++** algorithms using **OOP**, data structures, and multithreading to reduce latency of results.
- Assisted in designing forward testing systems using backend technologies like **webhooks** and sockets for real-time trading.

PERSONAL PROJECTS

E-Learning School | MERN Stack, JWT, Socket.IO [View Live](#)

- Developed a platform for storing and sharing code snippets, featuring an intuitive and interactive interface built with the **MERN stack**.
- Secured the application with **JWT**-based authentication and added **real-time chat** functionality using **Socket.IO**.

College Connect | ReactJS, NestJS, TensorFlow.js

- Building a platform to connect JEE aspirants with college students, using **ReactJS** for the frontend and **NestJS** for a secure backend.
- Integrated **TensorFlow.js** for intelligent matching algorithms and documented APIs with **Swagger UI**.

ConfessOut | Next.js, Redis, Twilio, Nodemailer

- Built a storytelling platform using **Next.js** to help users confess truths anonymously while ensuring privacy.
- Implemented **2-factor authentication** using **Redis** for OTP storage, **Twilio** for OTP delivery, and **Nodemailer** for anonymous emails.
- Designed a scalable and robust system with a focus on privacy and user anonymity.

TECHNICAL SKILLS

Languages: C, C++, JavaScript, SQL, Python, TypeScript

Frontend: React.js, Tailwind, CSS, HTML

Backend: Node.js, Express.js

Frameworks: Nest.js, Flask, Next.js

Database: MongoDB, Prisma(ORM), PostgreSQL

Tools: Git, GitHub, PostMan, Docker

Concepts: DBMS, OOP, Operating Systems, Data Structures and Algorithms

ACHIEVEMENTS

- Qualified **PRMO** in 11th grade.
- Solved **700+** DSA problems on **LeetCode**, **CSES**, **GeeksforGeeks**, and Codeforces.
- Achieved **Top 10%** on LeetCode with a rating of 1732.

POSITIONS OF RESPONSIBILITY

Desportivos (Sports Fest) | Head of Sponsorship

Counselling and Guidance Cell | Student Mentor