



# Ayush Kumar

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## EDUCATION

### Chandigarh University

Senior, B.E in Computer Science and Engineering

Mohali, Punjab

08/2021 - 07/2025

## PROJECTS

### Online-Judge [Node JS, Spring Boot, Docker, AWS, Bash Script] 10/2023

- **Problem:** Develop a system ensuring codebase security by preventing unauthorized access, tampering, and information leakage. Create a secure **By 95%** environment for users to submit and execute code without compromising system integrity.
- **Solution:** crafted a secure online judge system using Node.js, Spring Boot, Docker, and ReactJS, AWS.
- **Code Isolation with Docker:** Achieved secure code isolation using Docker, preventing unauthorized access and ensuring the **95%** integrity of the codebase in the online judge system.
- **Multithreading with Spring Boot:** multithreading features with Spring Boot to enhance performance and scalability, enabling efficient handling of concurrent code submissions in the online judge.

### Scalable Video Chat Application [Turborepo, NextJS, WebRTC, Redis, Kafka] 11/23 - 1/24

- **Problem:** Creating an online scalable video + chat application that can handle **1000+** Requests.
- **Solution:** Orchestrated a real-time video + chat application using Turborepo, WebRTC, Redis, PostgreSQL, NextJS, Redis, Kafka
- Implemented WebRTC for video calling and used Redis with Kafka to scale the application for **1000+ users**.

## EXPERIENCE

### Ask Senior

Remote, IN

SDE Intern

10/2023 - Present

- Spearheaded the development of an innovative online judge platform with **100% effort**.
- Curated a diverse and challenging set of **100+** problems sourced from prestigious MNCs' OAs.
- Engineered features to foster user engagement, community collaboration, and an enriching learning environment (Daily user increased by **10%**).
- Designed Problem of the day feature which is currently used by **1000+** users.

### SelfCareSchoolTech

Remote, IN

NextJS Developer

07/2023 - 09/2023

- **Pioneered the development** and deployment of the entire frontend in NextJS, ensuring a cutting-edge and responsive user interface.
- **Instituted CMS** using AWS S3 Bucket, elevating the user experience and optimizing performance.
- **Executed deployment** using AWS S3, Cloudfront, and Cloudflare, streamlining the application's accessibility and responsiveness.

## TECHNICAL SKILLS

**Languages(Proficient):** C++, Java, Python, Javascript, Node.js

**Frameworks(Proficient and Familiar):** NextJS, Django, React, Node.js, Spring Boot

**Developer Tools:** Postman, Git, Github, Turborepo, Kafka, Github Workflows

**Languages(Familiar):** C, C++, Rust, Python, Java, Solidity, SQL

**Libraries:** React-Router, NextUI, Material UI, Tailwind

## AWARDS AND VOLUNTEER EXPERIENCE

- \* **ICPC Regionalist 2023**.
- \* **Secured Rank 1** in Coding Competition(GOC) organized by IEEE.
- \* **Winning team** under Blockchain track organised by GDSC Club **Hack-O-Octo 1.0**
- \* Achieved **Secured 1800 rank** among 25000+ participants in codeforces 873 Round.
- \* Achieved **Secured 480 rank** (Global) in Codechef Starters 98 Division 3.
- \* **3 star CodeChef(1690)** and **Codeforces** rating **1371** and **LeetCode** rating **1642**.