



# Khush Shah

## Portfolio

Bachelor of Technology

Computer Science and Engineering

Indian Institute Of Information Technology, Ranchi

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## EDUCATION

### Indian Institute Of Information Technology, Ranchi

2022-26

B.Tech (Computer Science and Engineering)

CGPA: 8.95

## TECHNICAL SKILLS

**Languages:** C , C++ , Java , Javascript, Typescript, Python, SQL

**Developer Tools:** Git, VS Code, Postman, Bash Scripting, Docker, Github Copilot, Github Actions(CI/CD)

**Technology /Frameworks:** Node.js, Express.js, React, Next.js, Prisma, Sequelize, Mongoose, Tailwind CSS, Redis, RabbitMQ, WebRTC, WebSockets, ShadCN, Clerk, Redux-rtk, gRPC, Nginx, tRPC, Jest, Kafka

**Cloud /Databases:** MongoDB, MySQL, PostgreSQL, ConvexDB, Redis, AWS- DynamoDb, S3, EC2, ECS, Cloudfront

**CourseWork:** Computer Architecture , Operating Systems, OOPs ,Computer Networks, Software Engineering

**Areas of Interest:** Competitive Programming , Advanced algorithms ,Go(Golang), HLD , LLD

## PERSONAL PROJECTS

### SyncStream - Github | Wesbite

A full stack video call app

- Tools & technologies used: **Next.js**, **Tailwind**, **stream.io**, **ShadCN -UI**, **TypeScript**
- Designed the platform using **ShadCN** UI components for a fully **responsive** web design
- Established user authentication using **Clerk**, integrating **Google** and **GitHub** sign-in options.
- Integrated **stream.io** API for realtime communication and recordings with **100% uptime**.
- Enabled concurrent **1080p** video streaming for up to **25** users in a SyncStream room, accessible on both desktop and mobile devices.

### Fly High - Github

Flight Management System

- Tech Stack and Technologies: **Node.js**, **Express.js**, **MySQL**, **RabbitMQ**, **Sequelize-ORM**
- Developed a full-fledged Flight Booking Backend System using **microservice** architecture.
- Integrated **RabbitMQ**, boosting inter-service communication in the distributed architecture.
- Enforced rate limitation with **express-rate-limit**, limiting requests to **100** per IP address per minute, protecting backend services from abuse.
- Implemented **CRUD** functionality for flight Searching & filtration, boosting completed bookings and enabling users to filter the kind of flights they want to choose.

### Storify - Github | Wesbite

Upload and Share files(G-Drive Clone)

- Tech Stack and Technologies: **Next.js 15**, **React 19**, **Tailwind CSS**, **Appwrite**, **ShadCN-UI**, **TypeScript**, **Zod**
- Implemented user authentication with **OTP** functionality with the help of **Appwrite** .
- Used Appwrite **Storage buckets** to implement upload files functionality for users.
- Implemented **Zod** for type validation, ensuring data integrity and error-free form handling.
- Developed file management features such as rename, organization(into types) and enabled sharing of files between users.

## ACHIEVEMENTS

- ICPC** Regionalist (2024) for Amritapuri and Chennai with best rank of **48**.
- 4-Star** on **CodeChef** with max rating of **1982**. ([Link](#))
- Expert** on **Codeforces** with max rating of **1606**. ([Link](#))
- Knight** on **LeetCode** with max rating of **2005**. ([Link](#))
- Solved over **2000 DSA/CP** problems on platforms like **GFG**, **CF** and **Leetcode**. ([Codolio Link](#))
- Secured **Global Rank 41, 47** and **54** in CodeChef's Starters of over **25000** participants. ([Link](#))
- Secured **Global Rank 2** and **3** in CodingNinja's Weekly-Contest 142. and 120 respectively.

## POSITIONS OF RESPONSIBILITY

### Technical Lead - Competitive Programming Wing

Aug2024 - Present

House of Geeks Technical Society, IIIT Ranchi

- Organized and conducted **DSA** classes focused on common coding patterns and topics.
- Led multiple online and offline sessions to mentor students on **CP contests** and share learning resources.
- Facilitated over **50** post-contest discussion meetings to guide students, promote **peer learning** and foster a collaborative learning community.