

# Abhinav Singh

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## EDUCATION

**Indian Institute of Technology (BHU), Varanasi**

*Bachelor of Technology '23*

July'19 – May'23

CGPA : 8.21

**India Institute of Technology, Madras**

*Diploma in Computer Programming*

Jan'22 – Present

## EXPERIENCE

**Husk Power System**

*Software Engineer*

June'23 – Sept'23

- Revamped Huskify's codebase for a **10%** build time reduction, which has **50,000+** Play Store downloads
- Integrated a **Nginx Load balancer**, boosted traffic-handling capacity by **2 times** for the **Diwali sale**
- Implemented **caching** mechanism for HTTP responses, resulting in a **26%** improvement in data retrieval speed.
- Utilized **GitHub Actions** to enable **continuous deployment(CI/CD)** to **AWS EC2** instances.
- Integrated **Zod** for input validation in both backend and frontend, resulting in a decrease in incorrect inputs.
- Integrated **shimmer effect** in Huskify, boosting user retention by **18%** with reduced perceived loading time.
- Executed, single-handedly the **figma** design of the new product detail screen, by using **TailwindCSS** and **recoil**.
- Formulated **test cases** for APIs in **Postman**, pacing software development and enhancing reliability.
- **Technologies:** TypeScript, React Native, Zod, AWS EC2, Postman, Git/GitHub & Jira

**KT Industries**

*Software Developer Intern*

May'22 – July'22

- Developed **responsive shopping cart** for an E-commerce website, resulting in user-friendly shopping experience.
- Developed **Express APIs** for retrieving product details and placing orders, leading to increased company sales.
- Implemented **JWT authentication** to ensure secure user access , strengthening data protection.
- Implemented features such as **Save for Later**, **Social media sharing**, and **Get order summary**.
- **Technologies:** React, Node, Express, MongoDB, HTML, JavaScript, Postman, MUI & Git/GitHub

## PROJECTS

**Course-X : E2E Fullstack Course Marketplace build on MERN** | [Website link](#) | [Repo link](#)

- Implemented a **monolithic repository architecture** for user, admin, & server-side apps, encouraging **DRY**.
- Used NextJS for **Server-Side Rendering**, eliminating **waterfalling effect** and improving **SEO** performance
- Ensured API endpoint security by **JWT** & custom **middlewares**, restricting access to authenticated clients only
- Utilized the **Recoil** library to enhance state management in the **NextJS** application
- Executed the deployment of both frontend and backend application onto **AWS EC2 instances**.
- **Technologies:** TypeScript, Next, Express, Node, MongoDB, AWS EC2, Zod, TurboRepo & CI/CD

**X-Flix : Fullstack Online video platform(OVP)** | [Website link](#) | [Repo link](#)

- Implemented video filtering based on **age** & **genre**, sorting by **release date** & **views** for better user experience.
- Developed APIs by using **Express** to fetch video details and update like counts in **MongoDB** database.
- Engineered React component with Express API to enable **video uploads** with thumbnail, title, and genre.
- **Technology stack:** React JS, JavaScript, Express, MongoDB, Material UI & React Router

## ACHIEVEMENTS

- Achieved highest rating of **1535 (Specialist)** on [Codeforces](#) and **1846** on [Leetcode](#)
- Attained Global Rank **967** out of **10,000+** participants in **Codeforces Round 802 (Div.2)**.
- Attained Global Rank **1136** out of **24,000+** participants in **Leetcode Biweekly contest 84**.
- Attained Global Rank **1622** out of **23,000+** participants in **Leetcode Biweekly contest 82**.

## TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, Golang, C++, SQL, HTML
- **CS concepts:** Data structures & Algorithms, Database management system, OOPS, Operating system
- **Tools & Technologies:** React, Express, Node, MongoDB, Next, Docker, Recoil, React Native, Material UI, ZOD, Turborepo, TailwindCSS, Git, Github, AWS EC2 & lambda, Linux, Jest, MySQL