

# Rahul Talwar

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## Experience

### Defence Research Development Organisation(DRDO).

Feb 2025 – April 2025

Software Engineer Intern

Timarpur (Remote)

- **Designed and developed a role-based Trainee Management System** DRDO with separate access for HODs and Mentors, enabling secure and structured user interactions.
- **Implemented student data management** with both manual entry and CSV upload functionality, allowing HODs to assign mentors and track trainee progress efficiently.
- **Integrated mentor task management features**, including task assignment, trainee status monitoring, and certificate issuance, enhancing oversight and automation of intern lifecycle.

## Technical Skills

**Languages:** JavaScript, Typescript, C++, HTML5/CSS3, SQL

**Skills:** Data Structures & Algorithms, RESTful APIs, State Management

**Developer Tools:** VS Code, Git, Git Bash, Postman, Vercel

**Databases:** MongoDB, Convex

**Frameworks:** ReactJs, NextJS, NodeJS, ExpressJS, Zustand, Tailwind CSS, Framer-motion

## Projects

**CodeHUB – Online Compiler** / NextJS, TypeScript, Convex, Framer-motion, Clerk

[LINK](#) | [GITHUB](#)

- **Engineered a full-stack online compiler** supporting real-time code execution in multiple languages using containerized backends for secure and scalable runtime environments.
- **Integrated Clerk for user authentication and LemonSqueezy** for subscription management, enabling gated access to premium features and advanced language support
- **Added code snippet sharing and bookmarking** capabilities, allowing users to manage reusable code efficiently; enhanced frontend performance through lazy loading and responsive design.

**SplitzX** / NextJS, TypeScript, Convex, Framer-motion, Clerk

[LINK](#) | [GITHUB](#)

- **Built Expense Management app** enabling users to create new expenses for individuals or groups, with advanced expense splitting features supporting both equal and custom amount distributions.
- **Crafted a real-time dashboard** for live expense and settlement tracking, ensuring instant visibility and updates across users.
- **Developed complete settlement logic** allowing users to track, resolve, and maintain accountability in shared financial activities.

**Simu Life** / ReactJs, NodeJS, Framer-motion, Stripe, OpenAI, Groq, Zustand

[LINK](#) | [GITHUB](#)

- **Designed one-to-one and group chat** functionality enabling interactive real-time communication between users.
- **Created a swipe-based matching experience** inspired by Tinder for discovering compatible connections based on shared interests.
- **Integrated a monetized AI companion system** powered by Groq and OpenAI; users engage with custom personas through a Stripe-powered credit subscription model.
- **Enabled creators to post exclusive**, pay-per-view content with secure transaction handling and content access control via Stripe.

## Education

### Maharaja Agarsen Institute of Technology

Nov. 2022 – Present

Bachelor of Technology in Information Technology

Sector-22, Rohini, Delhi

### Lancer's Convent School

Class 12th : 85.2%, Class 10th : 87.2%

Pitampura, Delhi

## Honors

- Solved almost 400 DSA Problems on Leetcode and 100+ on GeekForGeeks.
- Got the Certificate of Excellence Award from Coding Blocks.