

# MANAS GUPTA

Third Year Undergraduate · Computer Science and Engineering  
Indian Institute of Technology, Kanpur

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## Education

Year	Degree	Institution	Score
2024	B.Tech,CSE	Indian Institute of Technology, Kanpur	9.20/10.0
2019	CBSE – XII	Mantora Public School, Kanpur (CBSE)	95%
2017	CBSE – X	BCM School, Kanpur (CBSE)	10.0/10.0

## Honors and Awards

- Achieved **Academic Excellence Award** for session 2019-20 & 2020-21 for exceptional performance in academics.
- Secured an **All India Rank** of **1042** in JEE Advanced 2020 among 0.2 million students
- Secured an **All India Rank** of **2991** in JEE Main 2020 among 1 million students

## Work Experience

### Frontend Product Engineer Intern

May 2022 - Present

Paradime.io

- Working on the huge code base of **Paradime.io** to integrate **Excalidraw** in the web-app.
- Implemented collaboration of different users in Excalidraw by using reconciliation algorithms.
- Currently working on **Annotations** feature in **Paradime's chrome extension** with persistent location and notes.
- Integrated GoogleSheets API to export large SQL queries as tables in GoogleSheets after Google OAuth.

### Lead Developer

May 2022 - Present

Student Placement Office, IIT Kanpur

- Lead developer for the Recruitment Automation Portal leading a team of 6 Junior Web Executives.
- Developed dynamic pages with routing using NextJS alongside responsive modern UI & Search Engine Optimisation
- Integrated the backend using type-based API calls and callback hooks for filtering & printing data in real-time.
- Persistent global state and page-level authorization with module based layout.
- Implemented Lazy Loading for optimisation of heavy loaded pages.

## Key Projects

### StoreIt

CS253 Course Project

🐙 StoreIt

Jan 2022 - May 2022

- Develop a retail software, in a team of 10 students to automate and ease the shopping experience of buyers & sellers
- Used ReactJS framework with MUI library for Frontend with Springboot Java as backend framework
- Software displays all the stores with their products for the buyers to go through and also view their previous orders.
- Implemented a search API for the buyers to search for their required product. Seller can edit the categories and products to be displayed in the store page and also add new categories and products

### PySAT Sudoku Solver-Generator & SAT Solver

CS202 Course Project

🐙 Sudoku-PySAT-Solver-Generator 🐙 SAT-Solver

Jan 2021 - Mar 2021

- Created a K-pair sudoku generator & implemented a solver for the same using CNF logic in PySAT library.
- Add logical constraints to the SAT solver and encoded each literal in SAT clause to solve the sudoku.
- Implemented a SAT solver similar to PySAT library in C++ using DPLL Algorithm.
- Integrated the parser with CNF logic and applied Unit Propagation while traversing the literals and clauses.

## Relevant Courses

Fundamentals of Computing	Real Analysis	Discrete Mathematic	Linear Algebra and ODEs
Data Structures and Algorithms	Software Engineering	Computer Organisation	Logic & Probability in CS

## Skills

**Programming:** Go, C++, JavaScript, Python, TypeScript    **Web:** Express.js, React.js, Flask, Next.js  
**Tools:** PyTorch, SciKit, NLTK, Jupyter    **Misc:** Git, Heroku, Bash, Docker, Linux

## Positions of Responsibility

- Project Mentor**, ACA, IITK May 2022 - July 2022  
Taught the basics of Rust and Web Assembly in Rust to 21 first year students.
- Secretary**, Design and Animation Club, IITK July 2021 - Feb 2022
- Secretary**, ESports Society, IITK July 2021 - Feb 2022