



# Prabal Minotra

2022357, Email: [prabal22357@iiitd.ac.in](mailto:prabal22357@iiitd.ac.in)

DOB: March 26, 2005

Address: 1568, Outram Lines, Kingsway Camp, Delhi



## Education

### Indraprastha Institute of Information Technology

B.Tech (CSD)  
2022 – Present

CGPA: 7.75  
(till 4<sup>th</sup> Semester)

### Mata Jai Kaur Public School, New Delhi

CBSE XII  
2021 – 2022

Percentage: 95.60

### Mata Jai Kaur Public School, New Delhi

CBSE X  
2019 – 2020

Percentage: 95.60

## Skills

**Expertise Area** Algorithm Design, Data Structures, Operating Systems, Object Oriented Programming, Probability and Statistics, UI/UX, Graphic Design

**Programming Languages** C/C++, Python, Java, HTML, CSS, Javascript, SQL, Shell Script, Haskell

**Tools and Technologies** Git, GitHub, VS Code, JetBrains IntelliJ, Eclipse, Arduino, Figma, React, NodeJS, Vite, Linux, MongoDB, MySQL

Algorithms, Databases, Arduino, Frameworks, Collaborative codespaces, Virtual Machines, Graphic Design Interfaces

**Technical Electives** Data Structures and Algorithms (C), Algorithm Design and Analysis (C++), Operating Systems (C), Advanced Programming (JAVA), Functional Programming I and II (Haskell), Computer Organisation (x86), Digital Circuits, Fundamentals of Database Management Systems (SQL), Prototyping and Designing Interactive Systems, Ethics in AI

**Math Electives** Linear Algebra, Probability and Statistics, Discrete Structures

## Projects

### HealMe Pharmaceutical Marketplace - [Github](#)

Guide: Vikram Goyal

(Jan,24 - Apr,24)  
Team Size - 4

- A comprehensive online medicinal marketplace application developed using Vue, JavaScript, and TypeScript, featuring 15+ functionalities, integrated SQL queries, and a MySQL database.
- This project is specifically designed for the Introduction to Database Management Systems (CSE202) course final project.

### **Vipriya - Music-Based Dating Platform - [Github](#) - [Youtube](#)**

Made for and won first prize at the Devhaven Hackathon '24

- Developed a cross-platform dating app in React Native leveraging the Spotify API for personalised music analysis and partner suggestion using the Sørensen–Dice coefficient, enhancing compatibility by considering common interests and complementary traits.
- Implemented a fully functioning database using MongoDB to store user data and built a back-end server using Node.js and Express.js.

(Jan, 24 - Feb, 24)

Team Size - 4

### **We Are: VR-based Therapy - [Demo](#)**

Guide: Kalpana Shankhwar

- Developed a virtual reality psychotherapy application providing hyper-realistic, personalised, cost-effective, and accessible mental health support.
- Built-in Unity3D using XR plugins and Oculus libraries, leveraging advanced ML through OpenAI APIs for response generation and speech-to-text and text-to-speech conversion.
- Implemented and deployed proxy servers in Node.js, Express.js and Python.

(Apr,24 - May, 24)

Team Size - 3

### **Assembler & Simulator - [GitHub](#)**

Guide: Tammam Tillo

- Developed a Python-based custom assembler and simulator tailored for a specific Instruction Set Architecture as part of the Computer Organization (CSE112) course project.
- Demonstrated expertise in low-level computing and system architecture.

(Apr,23 – Jun,23)

Team Size - 4

### **Adjungo Game - [GitHub](#)**

Guide: Koteswar Rao Jerripothula

- A Stick Hero-inspired game, developed in Java and rendered using JavaFX libraries, created for the Advanced Programming (CSE201) course project.
- This project utilises Scene Builder, JavaFX, and various Java classes, with all graphics designed in Photoshop for a polished and engaging visual experience.

(Nov,23 – Dec,23)

Team Size - 2

## **Positions of Responsibility**

- |  |                    |
|--|--------------------|
| • Organiser, 1Pixel Design Conference 2024 | (Nov,23 – Jan,23)  |
| • Designer, OWASP IIITD Student Chapter    | (May,23 – Present) |
| • Designer, IEEE IIITD Student Chapter     | (Feb,23 – Present) |
| • Design Team, ESYA Technical Fest 2023    | (Aug,23 - Sep,23)  |
| • Design Team, Odyssey Cultural Fest 2024  | (Sep,23 - Jan,24)  |
| • Member, Undergraduate Research Club      | (Nov,23 - Present) |
| • Designer, ACM IIITD Student Chapter      | (Nov,23 - Present) |
| • Member, Trivialis Quizzing Society       | (Mar,23 - Oct,23)  |
| • Creatives OC, ESYA Technical Fest 2024   | (Feb,24 - Present) |

## **Awards and Achievements**

- 1st Position, BYLD DevHaven Hackathon 2024

- 1st Place in Stand-Up Open-Mic @ Induction IIITD 2022
- 1st Place Trivialis Quizzesoc Intras

### **Interests and Hobbies**

- Horology
- Human History
- Solving crosswords and word puzzles

Declaration: The above information is correct to the best of my knowledge.

Prabal Minotra

Date: July 2, 2024