



Prabal Minotra

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DOB: March 26, 2005

Address: 1568, Outram Lines, Kingsway Camp, Delhi



Portfolio

Education

Indraprastha Institute of Information Technology

B.Tech (CSD)
2022 – Present

CGPA: 7.75
(till 4th 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](#)

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

Guide: Vikram Goyal

- 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](#)

(Jan, 24 - Feb, 24)

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

Team Size - 4

- 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.

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

(Apr,24 - May, 24)

Guide: Kalpana Shankhwar

Team Size - 3

- 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.

Assembler & Simulator - [GitHub](#)

(Apr,23 – Jun,23)

Guide: Tammam Tillo

Team Size - 4

- 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.

Adjungo Game - [GitHub](#)

(Nov,23 – Dec,23)

Guide: Koteshwar Rao Jerripothula

Team Size - 2

- 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.

Positions of Responsibility

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

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