

# Prabal Minotra

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## EDUCATION

- Indraprastha Institute of Information Technology** Delhi, India  
*Bachelor of Technology - Computer Science and Design; CGPA: 8.18 (till 6th Semester)* November 2022 - June 2026
- Mata Jai Kaur Public School** Delhi, India  
*CBSE Class 12; Percentage: 95.6* April 2021 - April 2022
- Mata Jai Kaur Public School** Delhi, India  
*CBSE Class 10; Percentage: 95.6* April 2019 - April 2020

## SKILLS SUMMARY

<b>Expertise Area</b>	Data Structures and Algorithms, Algorithm Design and Analysis, Web Development
<b>Languages</b>	C, C++, Python, JAVA, JavaScript/TypeScript, SQL, HTML/CSS, Haskell
<b>Tools and Technologies</b>	Git, GitHub, SciKit-Learn, Python Libraries, C++ Libraries, VS Code, JetBrains IntelliJ, Eclipse, Arduino, Figma, React, NodeJS, Vite, Linux, MongoDB, MySQL, PostgreSQL, PG Admin 4
<b>Technical Electives</b>	Computer Networks, Network Security, Operating Systems, DSA, Algorithm Design and Analysis, Advanced Programming, Design of AI-Driven Products, Functional Programming, Computer Organisation, Digital Circuits, DBMS, Prototyping and Designing Interactive Systems, Machine Learning Specialisation (Andrew Ng - Stanford & DeepLearning.AI @ Coursera) and Ethical Hacking (EC-Council @ Coursera)

## EXPERIENCE

- ICICI Bank Pvt. Ltd.**  
*Software Development Intern - Mentor: Karamveer* May 2025 - Present
  - Developed an NLP-based Service Request Manager in Python using scikit-learn and joblib to route and assign resolution teams to Service Requests smartly.
  - Researching Technical Advancements in Banking to suggest improvements in the Customer Lending Lifecycle for the Business Banking Group.
  - Competitive Benchmarking of Banks and Fintechs.
- IIITD - Network Security Lab**  
*Undergraduate Researcher - Instructor: Sambuddho Chakravarty* January 2025 - April 2025
  - APK Malware Detection using Machine Learning and Deep Learning.
  - Conducted On-Device tests for various detectors like MalScan & DroidEvolver.
- IIITD - Center for AI**  
*Undergraduate Researcher - Instructor: Md. Shad Akhtar* August 2024 - December 2024
  - Developing ReMa, a research management web application using JavaScript, HTML, and a PostgreSQL backend.
  - The platform streamlines research organization, tracking, and data management for academic and professional users.

## PROJECTS

- Vipriya - Music-Based Dating Platform:**  
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. [Link to Code](#) (Jan-Feb 2024)
- We Are: VR-based Therapy:**  
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. [Link to Demo](#) (April-May 2024)
- HealMe:**  
A comprehensive online medicinal marketplace application developed using Vue, JavaScript, and TypeScript, featuring 15+ functionalities, integrated SQL queries, and a MySQL database. [Link to Code](#) (Jan-April 2024)
- Adjungo game:**  
A Stick Hero-inspired game, developed in Java and rendered using JavaFX libraries. This project utilises Scene Builder, JavaFX, and various Java classes, with all graphics designed in Photoshop for a polished and engaging visual experience. [Link to Code](#) (Nov-Dec 2023)

## POSITIONS OF RESPONSIBILITY

- Convenor, 1Pixel Design Conference 2025 - 500+ Participants
- Organiser, 1Pixel Design Conference 2024 - 400+ Participants
- Team Lead, IEEE IIITD Student Chapter - Design
- Web Dev Team, OWASP IIITD Student Chapter - Web Development

## AWARDS AND ACHIEVEMENTS

- 1st Place Trivialis Quizsoc Intras
- 1st Place in Stand-Up Open-Mic @ Induction IIITD 2022
- 1st Position, BYLD DevHaven Hackathon 2024