Chetan Arora

Bachelor of Technology
Computer Science and Engineering
Indian Institute of Technology, Bhilai

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech., CSE	Indian Institute of Technology, Bhilai	8.96	2022-present
Senior Secondary	Central Board of Secondary Education	94.2%	2022

EXPERIENCE

RECOGX[Certificate],[▶]   *April 2024 - May 2024*

React Native application development intern   Remote

◦ Developed a cashless smart card system, serving **10,000+ students** across various institutions in India

◦ Implemented the backend using the **MERN stack** and created a user-friendly mobile app with **React Native**

FELLOWSHIP

Smart Attendance System   *Jan 2025 - present*

TIH Fellow, IIT Bhilai

◦ Creating a biometric smart attendance system using **RetinaFace** and **FaceNet** for face recognition

◦ Integrated with **RFID** technology (ISO/IEC 14443) for **secure authentication**

◦ Implemented on the **MERN** stack, the system **automates attendance marking, saving 100% of classroom time**

ACHIEVEMENTS

Competitive Programming and problem solving

As an enthusiast in Algorithms I have solved 1000+ DSA questins and participated in over 30+ contests.

◦ Specialist @ codeforces (max rating 1456) Codeforces, Leetcode profile - Leetcode

PROJECTS

Manim Gen - Google Hack2skill hackathon   *March 2025-April 2025*

Flask, Agentic AI, LLMs, AWS   []

◦ Engineered an **agentic RAG** based pipeline that converts YouTube lectures into interactive Manim-rendered animations using Gemini-based content extraction and LaTeX generation.

◦ Designed an LLM-driven architecture with a **Planner Agent** for **semantic chunking**. and **keypoint extraction**

◦ Executed a **Codegen Agent** for dynamic scene generation using **Manim** generating high quality video 91.66% of time.

Mlecchita-vikalpa   *March 2025*

JAVA, Iot   []

◦ Designed a **PocketMoney** application to limit the control of daily spendings as part of a **hackathon Trustathon**

◦ **Leveraged** the CDAC device **Trustoken** to enable secure authentication and transaction signing, completing the entire transaction process within 4 seconds

SPT-App   *February 2025 - present*

NodeJS, MongoDB, ReactJS, ReactNative

◦ Building a complete **MERN** stack and **react native** based application for student placement team

◦ Implementing **automated mails** to HRs and creating a novel approach of storing more contact

SKILLS

Programming Languages: : C,C++,Python,Java,Shell Script,Javascript,PHP,Typescript

Technologies: : NodeJS, React, React Native, Pytorch ,MongoDB, PostgreSQL, Langchain, Agentic AI

Tools: : Git, Docker, LaTeX, Arduino IDE,Gurobi,Adobe Illustrator, Figma,

KEY COURSES TAKEN

Computer Science and maths: Algorithm & Data Structure, Operating System, DBMS, Probability and statistics, Linear Algebra, Calculus, Discrete Math , Computer Networks, Cryptography, Nand2Tetris , Machine Learning, Principles of Programming Languages, Theory of computation, Compiler Design , Computer Organisation and Architecture, DIP, Quantum Computing, Graph Theory, Network Science

POSITIONS OF RESPONSIBILITY

Contingent Lead,Inter IIT Tech Meet 2024, IIT Bhilai   *Oct 2024 - Dec 2024*

Epsilon Club Coordinator, IIT Bhilai   *April 2024 - April 2025*

Student Mentorship Coordinator, IIT Bhilai   *April 2024 - March 2024*