

ABHINAV GUPTA

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EDUCATION

Indian Institute of Engineering Science and Technology, Shibpur

Bachelor of Technology — Information Technology

Howrah, WB

Expected 2027

Air Force School, Agra

Senior Secondary (CBSE) — 93.2%

Agra, UP

Completed 2022

Air Force School, Halwara

Secondary (CBSE) — 93.5%

Halwara, Punjab

Completed 2020

EXPERIENCE

Intern – Bharat Electronics Limited (BEL), CRL-GAD

02 June 2025 – Present

- Learning and contributing under the mentorship of G.A. Chullai Sir in the domain of **computer networking and socket programming using Python**.
- Exploring core concepts of **TCP and UDP protocols**, focusing on connection models and data transfer logic.
- Built small prototypes of **client-server architecture** using sockets to understand real-time communication and concurrency basics.
- Actively studying multithreading, packet transmission, and protocol behavior to build a deeper understanding of network communication.

PROJECTS

Mezhe – Developer-focused Social Platform | [GitHub](#) | [Live](#)

- Built a full-stack social platform enabling developers to **connect, chat, video call, code collaboratively**, and draw on a shared **whiteboard**, fostering real-time interaction.
- Integrated **GetStream.io** for secure real-time messaging and video calls; implemented low-latency **Socket.io**-based collaborative **code editor** and **whiteboard**.
- Ensured authentication with **bcrypt-based password hashing** and token-based session handling for secure user management.
- Tech Stack: **React (Vite)**, **Tailwind CSS**, **DaisyUI**, **Node.js**, **Express**, and **MongoDB (Mongoose)**.

AceView – Your AI mock interviewer buddy | [GitHub](#) | [Live](#)

- Built an AI-powered mock interview platform using **Next.js (App Router)** for scalable routing and performance optimization.
- Integrated **Vapi.ai** for conducting real-time, voice-based interviews simulating technical, and behavioral rounds.
- Utilized **OpenAI GPT** to dynamically generate interview questions and provide **comprehensive post-interview feedback** on clarity, confidence, and content quality.
- Designed a responsive, user-friendly interface with **Tailwind CSS**, ensuring seamless interaction and realistic interview experience.

DVoting App – Secure Decentralized Voting on Ethereum | [GitHub](#)

- Built a decentralized voting application on the Ethereum blockchain using **Solidity smart contracts** with secure vote handling, fraud prevention, and immutable ledger storage.
- Simulated blockchain environment using **Truffle** and **Ganache GUI** for local development, testing, and real-time transaction inspection.
- Integrated **MetaMask** for user authentication, identity verification, and secure Ethereum-based transaction signing.
- Simulated **Proof-of-Work (PoW)** consensus and implemented protections against double voting, Sybil/replay attacks, and gas griefing using nonce tracking and gas limits.

TECHNICAL SKILLS

Languages: C/C++, Java, JavaScript, Python

Frameworks/Tools: React, Vite, Next.js, Tailwind, Node.js, Express

Database/ORM: MongoDB, Mongoose

Tools: Git, GitHub, Postman, Figma

ACHIEVEMENTS

- **GirlScript Summer of Code Ext. Contributor (2024)**
- **Postman API Fundamentals Student Expert**
- **500+ DSA problems solved across LeetCode, GFG, and Codeforces**