

# MD SOHIL

CS Student — Delhi, India

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## SUMMARY

I am a driven **Computer Science Engineer** with strong skills in **data structures, algorithms, and full-stack development**. I have hands-on experience in building **scalable applications**, solving **complex problems**, and contributing in **hackathons and team-based projects**. Proficient in **agile workflows** and **modern development practices**, I am passionate about **product engineering, cloud technologies, and AI-driven solutions**. With a focus on **innovation, business impact, and secure, efficient, high-quality software systems**, I aim to help organizations **scale and transform digitally**.

## SKILLS

**Programming Languages:** C, C++, Python, Java, JavaScript

**Libraries & Frameworks:** React, Next.js, Numpy, Node.js

**Tools & Platforms:** Git, Vercel, GitHub

**Databases:** SQL, MongoDB, PostgreSQL

**Core Concepts:** DSA, Object-Oriented Programming, Operating Systems, Computer Networks, DBMS

**Other Skills:** Excel, MS Word, PowerPoint, Canva, Figma

## WORK EXPERIENCE

**V Dream Digitally pvt. ltd.**

Aug 2023 – Oct 2023

*Software Developer Intern*

- Developed and optimized **responsive, component-based user interfaces** using **HTML, CSS, JavaScript, and React**, **improving page load responsiveness by ~20%** through optimized component rendering and reuse while ensuring **cross-browser compatibility** and **mobile-first design**.
- Collaborated in a **virtual Agile team** across sprint cycles, contributing to **UI design discussions** and delivering **5+ reusable UI components** aligned with structured frontend implementation practices.
- Enhanced **user experience (UX)** and **accessibility** by applying **UI best practices** and performance optimization techniques, **reducing UI-related issues by ~25%** across mobile and desktop views.

**V Dream Digitally pvt. ltd.**

May 2022 – Oct 2022

*Technical Intern*

- Developed a **real-time magnetic field analysis tool** with a **PyQt5 GUI**, enabling **live FFT visualization** and signal/noise comparison, **reducing manual analysis effort by ~35%**.
- Implemented **multi-threaded data processing** for live plotting, **improving UI responsiveness by ~20%** and eliminating blocking during real-time data capture.
- Automated **CSV parsing, FFT-based spectrum analysis**, and per-second result exports, **cutting reporting time by ~40%** while improving accuracy of B-field and sensitivity calculations.

## PROJECTS

### AI-Powered Mock Interview Platform

- Built an AI-driven mock interview platform using **Gemini APIs** that provides **real-time, structured feedback** on **DSA, aptitude, logical reasoning, and soft skills**.
- Designed and integrated core modules such as **Resume Builder, Aptitude Tests, and Interview Simulator** using **Next.js, Clerk authentication, and Tailwind CSS**.
- Deployed the application on **Vercel** using **serverless architecture**, enabling **cloud scalability, low latency, and reliable performance** under varying workloads.

### AI-Powered Health Report Translator

- Developed an **OCR and NLP-based system** to convert complex medical reports into **simplified, multilingual explanations**, improving accessibility and patient understanding.
- Integrated intelligent features including **risk scoring, contextual summaries, and doctor recommendations**, targeting **rural and defense healthcare systems**.
- Implemented **secure data handling** and **offline accessibility**, while applying **AI-based health trend prediction** to support proactive wellness monitoring.

## EDUCATION

**Guru Gobind Singh Indraprastha University - GTB4CEC, Delhi**

*Bachelor of Technology in Computer Science and Engineering*

Aug 2022 – June 2026

**CGPA: 7.5**