

SUMIT KUMAR

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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, TypeScript

Libraries & Frameworks: React, Next.js, Scikit-learn, Pandas, Numpy, Node.js

Tools & Platforms: Git, Vercel, GitHub

Databases: SQL, MySQL, PostgreSQL

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

WORK EXPERIENCE

IBM (Virtual)

Frontend Developer Intern

- Built and optimized responsive user interfaces using HTML, CSS, Javascript, and React.
- Collaborated in a virtual agile team, contributing to design discussions and development tasks.
- Enhanced user experience and accessibility through UI improvements and best practices.

Defence Research and Development Organisation (DRDO)

Technical Intern

- Developed a **real-time magnetic field analysis tool** with a PyQt5 GUI for signal/noise comparison, FFT visualization, and sensitivity computation.
- Implemented **multi-threaded data processing** to ensure smooth live plotting and non-blocking user interaction.
- Added automated **CSV parsing, FFT-based spectrum analysis**, and export of per-second results for accurate B-field and sensitivity reporting.

PROJECTS

AI-Powered Mock Interview Platform

- Built an AI-driven mock interview platform using **Gemini APIs**, offering real-time feedback on DSA, aptitude, reasoning, and soft skills.
- Integrated modules like **Resume Builder**, Aptitude Tests, and Interview Simulator with **Next.js**, **Clerk auth**, and **Tailwind CSS** for secure, responsive UX.
- Deployed on **Vercel** using **serverless architecture**, enabling **cloud scalability**, low latency, and predictive performance analysis.

AI-Powered Health Report Translator

- Developed an OCR and NLP-based tool that translates complex medical jargon into simplified, multilingual content for better health understanding.
- Integrated **risk scoring**, contextual summaries, and doctor recommendations-beneficial for **defense and rural healthcare** systems.
- Focused on **secure data handling**, offline accessibility, and **AI-based health trend prediction** to support wellness monitoring.

EDUCATION

Guru Gobind Singh Indraprastha University - GTB4CEC, Delhi
Bachelor of Technology in Computer Science and Engineering

Sep 2023 - Jul 2027