Som Gupta

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 GitHub Profile
 LinkedIn Profile

EDUCATION

- **Dr. A. P. J. Abdul Kalam Technical University** — *Uttar Pradesh, India*
  Bachelor of Technology in Computer Science — October 2022 - June 2026

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, C/C++, Python, HTML, CSS
Frameworks: Node.js, Express, React, NextJs, Tailwind
Libraries: Three.js, Redux Toolkit, Material UI, Mongoose, Prisma
Databases: MongoDB
Others: Visual Studio Code, Git, Postman, Strapi

EXPERIENCE

- **Chegg, Inc.** — *October 2023 – Present*
  Subject Matter Expert - Computer Science — Certificate Link
  - Provided detailed solutions and step-by-step explanations for complex computer science problems, enhancing students' understanding and learning experience.
  - Authored over 200 high-quality answers covering topics such as algorithms, data structures, databases, and software engineering.
  - Applied advanced knowledge in programming languages (Java, C++) to solve real-world problems and assist students in their coursework.

POSITIONS OF RESPONSIBILITY

- **Software Developer** (SDC - Software Incubator) — *November 2023 – Present*
  -Research and Development Center of College, working with a team of 45 members.
  -Development of Scrolls, ICLLM Website and AKG Journals Website for the college.
  -Organising workshops of Data Structures and Algorithms and Competitive Programming, hosted events for 150+ students.

PERSONAL PROJECTS

- **Solaris** — Github Repo
  Real-time solar energy assessment tool using Next.js — Live Link
  - Tools & technologies used: Next.js, Three.js, Chart.js, GIS, Django.
  - Built a responsive and user-friendly interface using NextJs,Three.js, and Chart.js for seamless 3D visualization of BIPV potential on city buildings.
  - Using NextJs, Three.js, and Chart.js to display LOD-1 3D city models, heatmaps, and real-time solar energy potential.
  - Integrated shadow simulation, solar energy estimation, and heatmap using Three.js and Chart.js for BIPV analysis.

- **Study Notion** — Github Repo
  ED Tech Web Application using MERN Stack — Live Link
  - Tools & technologies used: React.js, Tailwind, Redux Toolkit,MongoDB, Express.js and Node.js
  - Implemented secure JWT-based user registration and authentication with bcrypt password hashing.
  - Enabled instructors to create, edit, and publish multimedia courses, and students to enroll, track progress etc..
  - Designed RESTful APIs for front-end and back-end interaction with robust data validation and error handling.

- **Soundly** — Github Repo
  Music Streaming Web Application using React.js — Live Link
  - Tools & technologies used: Tailwind, Redux Toolkit, React.js,Django, SwiftUI.
  - Implemented secure email and phone number authentication with OTP for user profile security.
  - Developed a comprehensive dashboard for artists to upload their own songs with descriptions, tags, and thumbnails.
  - Included a music quiz game and synchronized lyrics processing using JSON data for an enhanced user experience.

ACHIEVEMENTS AND ACTIVITIES

- SIH 2024 Winner **@ Indian Space Research Organisation (ISRO).**
- Achieved top 5 out of 400 participants in HackJNU 3.0, showcasing strong problem-solving skills.
- Solved more than 150 problems across coding platforms.
- Mentored over 150 students in competitive workshops like ITER8 and RUNTYM.