

# Sumit Kumar Garsa

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LeetCode : <https://leetcode.com/u/sumitkumargarsa/> | Github: <https://github.com/sumitkumargarsa>

## Professional Summary

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Dynamic Full-Stack Engineer with hands-on experience in designing and developing secure, scalable web applications and a strong foundation in computer science principles. Proficient in the MERN stack, cloud technologies, and real-time systems, with a passion for building high-performance solutions. Skilled in collaborating with cross-functional teams and solving complex problems using innovative user-centric approaches. Continuously learning and staying ahead of emerging technologies to drive impactful, scalable solutions.

- Expertise in Cloud Computing, Machine Learning, and Cybersecurity.
- Strong knowledge of Data Structures, Algorithms, and System Design.
- Track record of open-source contributions to impact and work with high-performance systems.
- Focused on user-centric design and product quality.

## Education

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B. Tech. in Computer Science | Vellore Institute of Technology (VIT)

\*August 2021 - Present\* | CGPA: 7.5/10

**Relevant coursework:** Data Structures and Algorithms, Operating Systems, Computer Architecture, Cloud Computing, Machine Learning

### Technical Skills:

**Languages:** C++, Java, Python, JavaScript, SQL, Kotlin, Dart, TypeScript.

**Frameworks & Libraries:** React, Node.js, Express, MERN Stack, Next.js, Flutter.

**Databases:** MySQL, MongoDB, PostgreSQL

**Cloud & DevOps:** Google Cloud, AWS (EC2, RDS), Docker, Kubernetes

**Tools:** Git/GitHub, Firebase, RESTful APIs, WebSockets, Mapbox, Stripe, Tailwind CSS

**Security & Others:** Cybersecurity, OAuth, JWT, Firebase Authentication

**Software:** Adobe Premiere Pro, After Effects, Photoshop, Davinci Resolve

## Projects

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### Real-time Coding Collaboration tool

Github : [real-time-coding](#)

Developed a real-time code editor for collaborative pair programming using React, Node.js, and WebSockets. Enables live synchronization for multiple users with syntax highlighting and seamless code editing.

- Impact: Improved collaborative workflows for coding teams, supporting up to 50 concurrent users.
- Tech Stack: React, Node.js, WebSockets, Express

### Your Own Code Editor

Github : [owncode-editor](#)

Built a desktop calendar application integrated with shared calendars for global scheduling, with features for collaborative meeting setups.

- Impact: Facilitated better scheduling coordination for remote teams.
- Tech Stack: React, CodeMirror, Judge0, RESTful APIs

### Online Cab Booking Application

Github : [cab-booking](#)

Designed and developed a full-stack cab booking system integrating Google Maps API and Stripe for payment processing.

- Impact: Enabled users to book rides and track routes in real-time, improving efficiency for on-demand

services.

- Tech Stack: Next.js 13, Tailwind CSS, TypeScript, Mapbox, Stripe

## Leadership & Extracurriculars

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### Graphic Designer, Photo Editor, and Video Editor

Aug 2021 - Jan 2025

- Led creative projects for Insights Club, D2C Igniters Club, and E-Cell, where I coordinated with teams to produce visual content for events and social media.
- Developed video tutorials and content for online platforms like YouTube and Instagram.

### Hackathon Participant

- Regularly participate in coding hackathons and competitive programming challenges on platforms like LeetCode, CodeForces, and Hackerrank.

## Certifications

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- Google Cloud Certified Associate Cloud Engineer
- AWS Certified Developer - Associate
- Certified Ethical Hacker (CEH)
- Complete Web Developer Bootcamp (Udemy)

## Additional Information

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### Hobbies:

- Reading books, exploring new programming paradigms, listening to music, and gaming.

### Languages:

- English (Fluent), Hindi (Native), and Basic Spanish.