

# Anshul Chauhan

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## SUMMARY

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CSE student with strong foundations in full-stack development, backend engineering, and DSA. Skilled in Node.js, Express, MongoDB, React, Java, and real-time systems (Socket.IO). Passionate about building scalable, secure, clean software with strong interest in system design and modern engineering practices.

## SKILLS

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|---------------|--|
| Languages     | Java, JavaScript (ES6+)                      |
| Web / Backend | Node.js, Express.js, REST APIs, EJS          |
| Frontend      | React.js (Hooks), Responsive UI              |
| Databases     | MongoDB, SQL                                 |
| Core CS       | DSA, OOP, OS, Networking                     |
| Tools         | Git, GitHub, Firebase, Postman, AWS (Basics) |

## PROJECTS

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### CollabSpace – Real-Time Collaboration Platform

- Built a Node.js + Express platform with real-time chat, typing status, and presence using Socket.IO.
- Added JWT authentication, bcrypt hashing, RBAC roles, and secure route protection.
- Designed modular backend APIs and optimized routing logic for scalability.
- Improved real-time reliability by minimizing redundant socket broadcasts.

### Institute Management System

- Developed student/faculty dashboards using Node.js, MongoDB, and EJS templates.
- Integrated Firebase notifications for academic updates and announcements.
- Implemented validated CRUD flows for academic and user data.

### Smart Mining Helmet (IoT)

- Built an ESP32-based helmet detecting methane/gas and temperature levels.
- Added instant alert system for hazardous conditions.

## ACHIEVEMENTS

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|-------------------|---|
| CGPA: 9.0         | Strong academic performance in B.Tech CSE.                          |
| Top 10% (ICSE)    | Secured 94% in Class X.   |
| DSA Certification | Completed advanced coursework in DSA and full-stack development.    |
| Hackathons        | Participated in university-level coding and development challenges. |

## EDUCATION

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|--------------|---|
| 2023–Present | <b>Chitkara University</b> , Punjab — B.E. CSE (CGPA 9.0)<br>Coursework: DSA, OOP, OS, CN, DBMS |
| 2023         | <b>GMSSS</b> , Chandigarh — Class XII (80%)   |
| 2021         | <b>Little Flower Convent</b> , Panchkula — Class X (94%)  |