

# GURSIMRAN SINGH

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## EDUCATION

**Bachelor of Computer Applications**, Chitkara University, Punjab 2023 - 2026  
2nd Year CGPA: 9.1

**Higher Secondary Education**, Scholars Public School, Rajpura 2021 - 2023  
12th Grade CGPA: 8.8  
10th Grade Achieved: 70 %

## SKILLS

**Technical Skills** C#, Angular, Python, C++  
Object-Oriented Programming (OOPs), SOLID Principles  
Design Patterns  
**Core Competencies** Data Structures and Algorithms  
**Additional Skills** Applied Mathematics  
**Soft Skills** Problem Solving, Time Management  
Communication, Teamwork

## PROJECTS

**Log Parser** 2024  
Developed a log parser to efficiently analyze and extract data from a 2 GB log file containing over 1.1 million lines. The parser handles multi-line JSON response messages and organizes data into an Excel spreadsheet. Key features include:

- **High Efficiency:** Utilized optimized algorithms to process large volumes of data quickly, achieving a significant reduction in file size.
- **Flexible Data Extraction:** Capable of handling various log formats and extracting critical information such as dates, threads, and JSON data.
- **Error Handling:** Implemented robust error-checking mechanisms to ensure accurate parsing and data integrity.
- **Scalability:** Designed to be scalable for processing even larger log files in the future.

**OOPs Concepts Exploration** 2024  
Developed a series of small programs to deeply understand and demonstrate core object-oriented programming concepts such as polymorphism, aggregation, and encapsulation. These projects involved creating class hierarchies, utilizing interfaces, and implementing real-world scenarios to effectively illustrate these principles.

## VOLUNTEER EXPERIENCE

**Computer Society of India (Student Chapter)** Apr 2024 - Present  
Technical Executive Punjab, India

- **Organized Coding Workshops** - Led workshops on various programming languages.
- **Web Development Event** - Organized a session on modern web design and development.
- **Technical Talks & Seminars** - Facilitated talks on emerging tech in computer science.
- **Peer Mentoring** - Guided juniors in programming and competitive coding.

## EXTRA-CURRICULAR ACTIVITIES

- Love composing and performing *Music*.
- Competing in *Chess* tournaments and improving strategic skills.