

ISHANT GOYAL

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Education

National Institute of Technology, Kurukshetra

Bachelor of Technology • Computer Engineering • CGPA: 8.96/10 (upto 5th Sem)

July 2019 – June 2023

Kurukshetra(Haryana), IN

Manu Vatika School

Senior Secondary • CBSE • Marks: 95.2%

April 2018 – March 2019

Mansa(Punjab), IN

SDKL DAV Public School

Secondary • CBSE • CGPA: 10/10

April 2016 – March 2017

Mansa(Punjab), IN

Experience

Nutanix

MTS Intern

January 2022 – June 2022

Bangalore, IN

- Extended the S3 SELECT functionality for highly efficient open-source Apache Parquet files (earlier available only for CSV file).
- Compared to CSV, Query runtime is upto 34x faster and saving upto 99% of costumer's cost.
- Tech Stack and Tools Used:** C/C++, CMake, AWS-CLI, Apache Arrow, Pandas, Git.

Personal Projects

Concurrent Traffic Simulator | C/C++, CMake, OpenCV, Concurrent Programming | [Link](#)

January 2022

- C++ based multithreaded traffic simulator using a real urban map.
- Each vehicle runs on a separate thread and intersections facilitate traffic flow and avoid collisions.
- Programmed using thread-safe communication protocols between vehicles and intersections.

Optimised Notepad | Python, Compression Techniques | [Link](#)

May 2021

- This is an Optimised Notepad which auto-compresses the text-file when the file is saved.
- Combination of compression Algorithms (LZW compression and Huffman compression algorithms) are used to compress the text file. It was able to achieve an average compression of about 65%.

Chat App | HTML, CSS, JS, NodeJS, SocketIO | [Link](#)

October 2021

- A simple website that is designed to chat online in collaborations/groups using web sockets. User can enter into the required room and can chat with buddies.

Relevant Coursework

- Data Structures
- Database Management
- OOPs
- Algorithms Analysis
- Operating Systems
- Compiler Design

Technical and Communication Skills

Languages: C/C++, JavaScript

Tools and OS: VS Code, Git, Github, Linux, Windows, Gerrit, CMake, GDB

Other Skills: Googling, SQL, HTML, CSS, NodeJS

Natural Languages: English, Hindi, Punjabi

Achievements

- Rated **5 Star** on Codechef (Id: [Link to Profile](#))
- Rated **Specialist** on Codeforces (Id: [Link to Profile](#))
- Global Ranking 27 in June Lunchtime Div2(2022) conducted on codechef
- Global Ranking 2 on CodeStudio (Coding Platform by Coding Ninjas)
- 400+ problems solved on Leetcode
- Among India's top 0.4% (JEE Mains'19)

Area Of Interests

Problem Solving • Competitive Programming • Software Development • Music