



Tanish Goyal
Bachelor of Technology
in Computer Science & Engineering
Indian Institute Of Technology, Ropar

+91-8307856132
2020csb1133@iitrpr.ac.in
GitHub
linkedin.com/in/tanish-goyal-87b3921bb

EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	8.26 (Till 4th Sem)	2020-2024
Senior Secondary	Central Board of Secondary Education	93.8%	2020
Secondary	Central Board of Secondary Education	90.2%	2018

PROJECTS

- **Tic Tac Toe using Verilog** Oct 2021 - Nov 2021
CS203 Group Project **GitHub**
 - Required a deep understanding of the language: Verilog.
 - Developed various algorithms to determine the winner/loser or in case a draw happens.
 - Implemented various modules, state diagrams to get the program running
- **Huffman Encoding** Oct 2021 - Nov 2021
CS201 Group Project **GitHub**
 - Did two things basically: made a Huffman Tree and then traversed it, side by side, to get encoding.
 - This compression technique is still the basis of many modern techniques.
 - We get the shortest encoding that's unique, for input, thereby reducing its size considerably.
- **Utility Based Cache Partitioning (UCP) using Champsim** April 2022 - May 2022
CS204 Group Project **GitHub**
 - Studied And Implemented a research paper based on Utility based Cache Partitioning in Champsim
 - MPKI and IPC values of the cores are compared with LRU partitioning scheme of the LLC(last level cache).

TECHNICAL SKILLS

- **Programming Languages:** C/C++, Java, Perl
- **Other:** Database Management, Operating Systems, RISC-V

KEY COURSES TAKEN

- **CSE:** Data Structures & Algorithms, Discrete Maths, Digital Logic Design, Computer Architecture, Compiler Design
- **Maths:** Linear Algebra, Calculus, Differential Equations, Probability & Statistics

MISCELLANEOUS

- **Among top 7% students (got a scholarship)**, in the the BTech programme 2021
- **1577 Rank in JEE Advanced**, among around, more than a million aspiring candidates 2020
- **4 stars (1804) on Codechef (Profile Link)**, achieved this rating after mere 6 contests 2022
- **1016 rating on Codeforces (Profile Link)**, achieved max 1161 rating after 6 contests 2022