



Yadwinder Singh

Bachelor of Technology
in Computer Science and Engineering
Indian Institute Of Technology, Ropar

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GitHub

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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	8.00 (Till 4th Sem)	2020-2024
Senior Secondary	Central Board of Secondary Education	93.6%	2020
Secondary	Central Board of Secondary Education	89.2 %	2018

PROJECTS

- **Basic C Language Compiler** March 2022 - April 2022
Dr. Deepti R Bathula Github
 - implemented the lexical as well as syntax analyser for c language.created tokens of each lexemes of typical c code in lex.
 - implemented the grammar of function declarations, variables declarations, compound,assignment statements and Boolean, arithmetic expressions in yacc.
- **UCP in Champsim** Jan 2022 - May 2022
Dr. Shirsendu Das Github
 - Implement Utility-Based Cache Partitioning in ChampSim which is a trace-based simulator for the study of microarchitecture
 - It uses The Lookahead Algorithm to find the right partition for each core for L3 cache and uses LRU without partition for L1 cache and L2 cache.
- **Tetris Game** Github
 - implemented the one the famous game, tetris using HTML5 canvas and javascript.
 - Different shapes tetriminos falls from above. Game end with tetrimino filling the highest row.
- **Quinn McCluskey Algorithm** Sep 2021 - Nov 2021
Dr. Neeraj Goel Github
 - Implemented Quine McCluskey Method for minimizing the Boolean expression and drawing k-map.
 - Inputs the Boolean expressions in every format and minimizes the expressions using Quine McCluskey method.
- **LRU Cache Replacement Policy** Sep 2021 - Nov 2021
Dr. Anil Shukla Github
 - implemented the LRU Cache Replacement Policy in C using Queue, Hash Map and Linked List
 - program runs on automatically generated random URLs and outputs what is present in cache memory.

TECHNICAL SKILLS

- **Programming Languages:** C/C++ , Javascript, Perl, HTML/CSS, React.Js
- **Web Development:**
- **Competitive Programming:**

KEY COURSES TAKEN

- **CSE :** Algorithm & Data Structure, Digital Logic Design, Computer Architecture.
- **Others:** Basic Electronics, Tinkering Lab, Economics.

POSITIONS OF RESPONSIBILITY

Mentor ,ISMP, IIT Ropar Nov 2021 - present
Co-ordinator ,Epicure Club, IIT Ropar Nov 2021 - Present

MISCELLANEOUS

- **Specialist on Codeforces**, Handle: Rko_8001 (Max Rating: 1411)
- **3 star on codechef**, Handle: yadwinder (Max Rating: 1672)
- **Qualified for Kvpyp Stage 2**, 2019-2020
- **Secured AIR 1670 in JEE mains and AIR 1785 in JEE advanced**, 2020
- **Secured global 278 rank in Codechef August Cook- off 2021 Div 2.**,
- **Participated in U-14 State-level Basketball championship held at Mansa, Punjab.**, 2016