Sushil Kumar

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

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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	7.5 (Till 4th Sem)	2020-2024
Senior Secondary	Indus Valley Public School	91.2%	2019
Secondary	Indus Valley Public School	10	2017

PROJECTS

- **Utility Based Cache Partitioning** *April 2022 - May 2022*
  Computer Architecture(CS204) **Github**
  - Upgraded the code for replacement policy of caches and allow dynamic partitioning int the last level cache. Different traces were run on Champsim and results were improved.
  - It was a group project of 5 members.

- **Vending Machine** *Oct 2021 - Nov 2021*
  Digital Logic and Design(CS203) **Github**
  - Verilog was used to design the code for a vending machine. It takes a certain amount of money and returns a chosen product from the machine with a change.
  - It was a group project of 3 members.

- **Treaps Implementation** *Oct 2021 - Nov 2021*
  Data Structures(CS201) **Github**
  - An optimized data structure, using a combination of Binary trees and heaps.
  - Group project of 3 members

- **CUCU: A compiler you can understand** *April 2021*
  Programming Paradigms and Pragmatics(CS202) **Github**
  - A basic compiler using Lex and Yacc written in C++.Used basic grammar and Regex expressions.
  - Solo Project

TECHNICAL SKILLS

- **Programming Languages**: C/C++, Perl, HTML
- **Others:**: RISC-V, Verilog, Github, Linux

KEY COURSES TAKEN

- **CSE & Maths**: Algorithm & Data Structure, Digital Logic and design, Computer Architecture, Programming Paradigms and Pragmatics, Discrete Math
- **Others**: Basic Electronics

POSITIONS OF RESPONSIBILITY

- **Member**, Coding Club, IIT Ropar *Dec 2020- Ongoing*
- **Member**, Sports Club, IIT Ropar *Dec 2020- Ongoing*
- **Member**, Zenith Club, IIT Ropar *Dec 2020- Ongoing*

MISCELLANEOUS

- **Achievement 1**, School Topper in 10th Boards *2017*
- **Achievement 2**, School Topper in 12th Boards *2019*
- **Achievement 3**, Jee advanced *2020*