Jatin Gupta
Bachelor of Technology
in Computer Science Engineering
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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	7.84 (Till 4th Sem)	2020-2024
Senior Secondary	Central Board of Secondary Education	93%	2020
Secondary	Central Board of Secondary Education	86%	2018

PROJECTS

- **Implementation of Utility-Based Cache Partitioning** *April 2022 - May 2022*
  Computer Architecture(Group Project) **Github**
  – In this project, We tested the UCP on Microarchitectural Simulator Champsim using **C++** language.
  – In Multicore Processors, the lowest level cache is shared by all cores, So instead of static partitioning Using utility-based partitioning, our project allocates dynamic cache memory to different cores to Minimise Miss count.

- **Syntax Checker For C Language** *Mar 2022 - Apr 2022*
  Deepti R. Bathula **Github**
  – This Toy Compiler Performs Lexical Analysis and Syntax Analysis for given piece of code Using Lex And Yacc.
  – It First converts code into tokens then verify the arrangement of tokens using Grammar.

- **Smart Car Parking System using Verilog** *Oct 2021 - Nov 2021*
  Digital Logic Design **Github**
  – The Main Objective of This Project is to automate parking System Using Finite-state machine.
  – This project ensures the safety of Parked cars and prevents collisions between entering a car and exiting cars.

- **Text file compression using Hoffman encoding** *Sep 2021 - Oct 2021*
  Data Structure and Algorithm **Github**
  – The project aims to implement the Huffman encoding and decoding process using Min Heap.
  – It is a statistical compression method that converts characters into variable-length bit strings and produces a prefix code.
  – Basic Concept of Trees, Hashing, Linked list and File handling Were used to Make compressor.

- **Mini Projects** *Jan 2022 - Feb 2022*
  For sake of learning Programming Languages **Github**
  – Hangman Game (Perl).
  – TicTacToe (Java).

TECHNICAL SKILLS

- **Programming Languages**: C/C++, Python, Java, Perl, Javascript
- **Front End Web Technologies**: HTML5, CSS, Bootstrap, React
- **Libraries/ frameworks/ OS**: Matplotlib, Numpy, Pandas, Linux, git

KEY COURSES TAKEN

- **CSE**: Algorithm & Data Structure, Computer Architecture, Programming Paradigms, Digital Logic Design
- **Maths**: Discrete Mathematics, Probability and Statistics, Advanced Calculus and Linear Algebra
- **Others**: Economics, Signals and Systems, Basic Electronics , Tinkering Lab

POSITIONS OF RESPONSIBILITY

- **Team Leader, Event Management Team**, Zeitgeist, IIT Ropar *Apr. 2021 - May 2021*
- **Team Member, Publicity Team** , Advitiya, IIT Ropar *Apr. 2021 - May 2021*
- **JEE Mentor**, S.H.V.M School *Dec. 2020 - June 2021*

MISCELLANEOUS

- **JEE Advanced 2020**, All India Rank 3462 JEE Advanced 2020 *2020*
- **JEE Mains 2020**, All India Rank 2313 JEE Mains 2020 *2020*
- **Competitive Programming**, Global Rank 174 CodeChef Starters 31 Division 2 *2022*
- **Selected In merit cum means Scholarship Offered by IIT Ropar**, Exemption From paying tuition Fees *2021*