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

+91-8569945823
2020csb1118@iitrpr.ac.in
GitHub | Website
linkedin.com/in/rohit-kinha-2301ab1bb

EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	7.81 (Till 4th Sem)	2020-24
Senior Secondary	Central Board of Secondary Education	95.8%	2018-20
Secondary	Central Board of Secondary Education	93.2%	2016-18

PROJECTS

- **UCP in Champsim** *Jan 2022 - May 2022*
  Computer Architecture **Github**
  – The objective of this project is to implement Utility Cache based partitioning (**UCP**) in Champsim, which is a trace-based simulator for the study of microarchitecture.
  – It is implemented for N cores and for different replacement policies like LRU, SRRIP, and DRRIP.
- **CryptoPay** *Jan 2022 - Present*
  Personal Project **GitHub | Website**
  – This is a Web-3.0 project which helps us to transfer Ethereum from one metamask wallet to another through Goerli Test Network.
  – It also keeps a track of your past transactions through this website with a unique GIF generated for each transaction corresponding to your keyword entered.
  – It is implemented using Javascript, Tailwind CSS, HTML, Vite, Solidity, Hardhat and Giphy.
- **CUCU - Compiler U Can Understand** *Feb 2022 - May 2022*
  Programming Paradigms and Pragmatics **Github**
  – It is a compiler that reports any syntactical and lexical errors in a sample code using Lex and Yacc.
  – It is a small subset of C language which encounters program source files consisting of variable declarations, function definitions, and function declarations.
- **Smart Car Parking System** *Oct 2021 - Dec 2021*
  Digital Logic and Design **Github**
  – The main objective of this project is to propose a smart car parking system that deals with different aspects like vehicle management including parking and security and calculates the fare of a car for the time it was parked in.
  – It is implemented using a Finite State Machine in Verilog.
- **Portfolio Website** *Oct 2020 - Dec 2020*
  Personal Project **GitHub | Website**
  – It is a simple portfolio website to show my personal information and projects.
  – Developed using HTML, CSS and Javascript.
- **Mini-Projects** *Jan 2021 - May 2022*
  Data Structure and Algorithms **Github**
  – **Network Flow** - It computes a maximum possible flow for a network flow with a source and sink and is implemented using Graphs and BFS.
  – **LRU-Cache** - Least Recently Used is a common caching strategy in which, we evict least recently used elements from the cache to make room for new elements when the cache is full. It is implemented using Queue and Hashmaps.
  – **Hangman** - It was a simple game project in Perl language in which we have to guess a word in limited attempts.
  – **Tic-Tac-Toe** - It was a small gaming project implemented in Java.

SKILLS

- **Programming Languages**: C, C++, Perl, Java, Javascript, Solidity
- **Technical Skills**: Wordpress, MATLAB, Canva, Tinkercad, HTML, CSS, Verilog, RISC-V, Lex-Yacc, Latex
- **Soft Skills**: Leadership, Communication-(English and Hindi), Teamwork, Management
- **Other Skills**: Problem Solving, Blockchain Development, Web Development, Photo and Video Editing, Trading, Competitive Programming

KEY COURSES TAKEN

- **Computer Science**: Data Structure and Algorithms, Programming Paradigms and Pragmatics, Computer Architecture, Digital Logic and Design, Introduction to Computing and Data Structures
- **Maths**: Discrete Mathematical Structures, Advanced Calculus, Linear Algebra, Differential Equations
- **Others**: Signals and Systems, Tinkering Lab, Basic Electronics, Economics, Introduction to Electrical Engineering

MISCELLANEOUS

- **HScTSS scholar**, It a State Science Talent Search Scheme for students studying in class 10th. *2018*
- **Qualified JEE Mains 2020**, Among top 1 % *2020*
- **Qualified JEE Advanced 2020**, Among top 1 % *2020*
- **4-star coder on codechef**, *Codechef*