MOHIT KUMAR

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

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GitHub | LinkedIn
Portfolio

EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	6.80 (Till 4th Sem)	2021-2025
Senior Secondary	Board of Secondary Education, Rajasthan	99.4%	2021
Secondary	Board of Secondary Education, Rajasthan	92.17%	2019

EXPERIENCE

- **Betawill** — *Dec 2022 - Present*
  Frontend Developer — Visit
  - Developed and maintained engaging frontend interfaces for **video lecture uploading and streaming**, **online test series**, and **student record management** at **Betawill**.
  - Collaborated with a cross-functional team to integrate and implement frontend components using **React**, **HTML**, and **CSS**, ensuring a seamless user experience.
  - Conducted **testing** and **debugging** to optimize performance and ensure responsive web pages. Implemented intuitive interfaces, enhancing engagement and simplifying workflows.

PROJECTS

- **Metamask** — *Mar 2023 - Apr 2023*
  A web3 site developed in a group project that connects wallets and allows sending Metamask test ethers. **Visit Site**
  * Developed the user interface using **React.js**, **Particle.js**, and **CSS** to create dynamic designs and enhance user engagement.
  * Integrated **Web3.js** to enable the transfer of ethers, providing users with the ability to send Metamask test ethers with variable speed and gas price options.
  * Implemented features such as contacts management and transaction history tracking, allowing users to keep track of recent interactions.
  * Collaborated with the team to ensure seamless integration of frontend components, delivering a user-friendly and visually appealing web3 application.

- **Data Encryption** — *August 2022 - Nov 2022*
  Anil Shukla Sir **Github**
  * Implemented keyless encryption in C, ensuring secure data protection without traditional encryption keys. Employed an algorithmic approach for robust encryption and decryption.
  * Utilized advanced encryption techniques, including keyless encryption, to bolster data security and deter unauthorized decoding attempts.
  * Implemented a two-layer security mechanism leveraging data structures, further fortifying the overall security of the system.

- **RISC-V Simulator** — *Jan 2023 - May 2023*
  Prof. Neeraj Goel **Github**
  * Developed a 32-bit RISC-V simulator in C++, capable of executing machine code in both single-cycle and pipeline modes.
  * Simulated memory hierarchy, caches with different policies, and branch predictors to analyze performance metrics such as CPI (Cycles Per Instruction), miss rate, and hit rate.
  * Implemented various features including state calculation, memory hierarchy management, and branch prediction to accurately simulate RISC-V architecture.

TECHNICAL SKILLS

- **Competitive Programming**: Specialist on Codeforces with handle **bhuria_mohit**.
- **Programming Languages**: C/C++, Python, JavaScript, RISC-V ISA Assembly Language.
- **Web Development**: HTML, CSS, Bootstrap, React.js, Node.js.
- **Data Structures**: Proficient in solving data structure problems.

KEY COURSES TAKEN

- **CSE**: Algorithm & Data Structure, Computer Architecture, Programming Paradigms, Digital Logic Design, Basic Programming and computing
- **Mathematics**: Linear Algebra, Probability and Statistics, Discrete Mathematics, Calculus, Differential Equations

POSITIONS OF RESPONSIBILITY

- **Blockchain Cordinator**, Softcom Club, IIT Ropar — *Apr. 2022 - Apr. 2023*

MISCELLANEOUS

- **Mathematics Olympiad**, Appeared in Regional Mathematics Olympiad(RMO) — *2021*
- **UPSC-NDA**, Qualified for SSB Interview — *2021*
- **JEE:** , Ranked in top 1% in Mains and Advanced — *2021*
- **HummingBird Olympiad**, Gold Medalist in HummingBird Science Olympiad at school level.