



Sudhanshu

Bachelor of Technology
in Mechanical Engineering (Minor in Mathematics)
Indian Institute Of Technology, Ropar

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GitHub | Website
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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	7.23 (Till 5th Sem)	2023-2027
Senior Secondary	Rajasthan Board of Secondary Education	84.40%	2022
Secondary	Rajasthan Board of Secondary Education	91%	2020

EXPERIENCE

- Technology Business Incubator Foundation (TBIF)** *July 2025 - Present*
Intern IIT ROPAR | **Website**
 - I am currently engaged as an Intern at IIT Ropar TBIF, where I developed the official website entirely from scratch and continue to handle its maintenance and updates to keep it user-friendly and aligned with the institute's objectives. Alongside website management, I assist senior officials with various assigned tasks, gaining valuable exposure to both technical and administrative aspects in a professional environment.

PROJECTS

- CoSketch** *March 2025 - June 2025*
Web Development Project **GitHub**
 - CoSketch: Developed a real-time collaborative drawing application enabling multiple users to sketch together with live updates and session persistence.
 - Frontend: Built with NextJs, TypeScript, and HTML5 Canvas, integrating WebSocket connections for sub-100ms synchronization of drawing events.
 - Backend: Designed a Node.js/Express API and WebSocket server for room management, message broadcasting, and user presence, backed by a PostgreSQL database.
- Solana Prediction Market** *Oct 2025 - Dec 2025*
Rust, Anchor **Github**
 - Created a decentralized prediction market contract on Solana with tokenized outcomes. Implemented minting, burning, and vault-based collateral management.
 - Handled market lifecycle including creation, settlement, and reward claims. Ensured access control and time-based constraints for fair execution.
- Checkers Game** *Jan 2025 - March 2025*
C++, 2D Array, Graph, Minimax Algorithm **Github**
 - Developed a checkers game in C++ using a 2D array to represent the board and unique values for pieces.
 - Implemented turn-based moves, capturing, promotion, and game end conditions.
 - Used the minimax algorithm with fixed-depth search for an optimal AI opponent.

TECHNICAL SKILLS

- Programming Languages:** C++, Rust, Solidity, JavaScript, TypeScript, SQL.
- Development tools:** Git, GitHub, Code Editor (VS Code, Cursor), Postman.
- Web3:** Solana, Anchor, Dapps, Solana Native Contract in Rust, Ethereum, Private Key Managment.
- WebDevelopment:** HTML, CSS, JavaScript, Tailwind CSS, TypeScript, React, NextJs, NodeJs, Postgress, Prisma, Monorepo, MongoDB, WebSocket, Pub Subs(Redis).
- Devops:** CI/CD pipeline, Docker, AWS(EC2), Digital Ocean, Serverless(Cloudflare), Kubernetes(K8s).
- Competitive Programming:** Quite experienced in competitive programming and have a good grasp on data structures and algorithms.

KEY COURSES TAKEN

- Mathematics:** Probability and Statistics, Linear Algebra and Integral Transforms, Calculus, Differential Equations.
- Others:** Introduction to Computing and Data Structures, Economics, Basic Electronics.
- Additional Certified Courses:** Web Development, DevOps, Web3.

MISCELLANEOUS

- Achievement 1,** Web Development Internship | **Link** *2025*
- Achievement 2,** Secure AIR 9863 among 150K candidates in JEE Advance | **Link** *2023*
- Achievement 3,** Get 98.18 percentile in JEE Mains | **Link** *2023*
- Specialist on Codeforces,** Max Rating 1497 on handle Sudhanshu_Gaur | **Sudhanshu_Gaur** *2025*
- 3 Star on Codechef,** Max Rating 1765 on handle sudhanshu_g | **sudhanshu_g** *2025*