Chirag Tayal

Bachelor of Technology
in Electrical Engineering
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	7.93 (Till 4th Sem)	2023-Present
Senior Secondary	Central Board of Secondary Education	94.6%	2023
Secondary	Central Board of Secondary Education	93.6%	2021

PROJECTS

- **Student Management System(C++)** *May 2025 - June 2025*
  Console-based CLI tool with file handling **Github**
  – Designed a full-featured student record management system using file I/O and object-oriented programming principles
  – Supported sorting, searching, grade calculation, input validation, and CSV export.

- **To Do List Web App(Full Stack)** *Apr 2025 - June 2025*
  MongoDB-Express-Node Full Stack Practice Project **Live Demo | GitHub**
  – Developed a full-stack To-Do List application with persistent task storage using Node.js, Express, and MongoDB.
  – Built dynamic frontend with HTML, CSS, and vanilla JavaScript to add, delete, and update tasks in real-time.
  – Implemented RESTful API endpoints for creating, reading, updating, and deleting (CRUD) tasks on the backend.
  – Used MongoDB with Mongoose for schema-based task management and data persistence.

- **Web Media Player with Lock Screen Controls** *May 2025*
  Web API Exploration Project Frontend **Github**
  – Developed a custom web-based media player with a dynamic playlist, playback controls, and responsive UI.
  – Integrated **Media Session API** to support hardware-based lock screen media controls (play/pause/next/previous).
  – Implemented real-time metadata updates including song title, artist, and album art for enhanced user experience.

- **Personal Portfolio Website** *June 2025*
  Frontend Web Dev Practice Project **Github**
  – Designed and developed a personal portfolio website using HTML, CSS, and JavaScript to showcase projects, skills, and resume.
  – Implemented responsive layout, animated transitions, toggleable navigation menu, and integrated social/contact icons.

TECHNICAL SKILLS

- **Programming Languages**: C++, Python(basic), Javascript
- **Frontend**: Html, Css, Javascript, Basic Bootstrap
- **Backend**: NodeJS, Express, MongoDb
- **Development Tools**: Basic Git, GitHub, VS Code
- **Other**: Data Structures and Algorithm(C++), Responsive Design, Media Session API, Arduino (Tinkercad), Basic Canva

KEY COURSES TAKEN

- **CSE & Maths**: Intro to Computing and Data Structures, Calculus, Linear Algebra, Differential Equations, Probability And Stochastics
- **Others**: Signals And Systems, Digital Circuits, Basic Electronics, Circuit Theory, Control Engineering, Electromechanics, Economics

POSITIONS OF RESPONSIBILITY

- **Representative**, Table Tennis Club, IIT Ropar *Apr. 2024 - Apr. 2025*
- **Coordinator**, ESportz Club, IIT Ropar *Apr. 2024 - Apr. 2025*
- **Event Coordinator**, Revanche(First Gaming Fest), IIT Ropar *Jan. 2024 - Feb. 2024*

ACHIEVEMENTS

- **JEE Mains**, AIR 5910 in JEE Mains
- **JEE Advanced**, AIR 5832 in JEE Advanced
- **Table Tennis Player**, Represented school in district and state competitions
- **LeetCode DSA Practice**, Solved 140+ problems focusing on algorithms and data structures