Kartikey Singhal

Third-Year Undergraduate
Bachelor of Science in Chemistry

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Academic Qualifications

Year	Degree	Institute	CGPA/Percentage
2022-Present	BS	Indian Institute of Technology, Kharagpur	8.09/10
2022	Senior Secondary	Sarvodaya Senior Secondary School, Kota	93.8%
2020	Matriculation	Modern School, Kota	95.4%

Achievements and Honors

- Secured a rank under top 1.6% among a total of 10.2 lakh candidates in the Joint Entrance Examination (JEE) Main Exam.
- Secured a rank under top 7% among a total of 1.5 lakh candidates in the Joint Entrance Examination (JEE) Advance Exam.
- Online Judge for competitive programming | **CodeChef**: Maximum Rating – **1622 (3 star)** | **Profile**
- Secured a **Global Rank** of **130, 392** and **525** in CodeChef Starters 139, 138 and 116 among 25K+ participants respectively.
- Certified for participation in the **National-Level Case Competition - Kisan Vikas 2023** organized by **IIM Lucknow**.
- Contributed to the team's success in securing **3rd** place among 17 teams in the Cricket-GC'2023 at IIT Kharagpur.
- Part of the **Bronze** winning organizing Illumination team of RK Hall of Residence organized by TSG, IIT Kharagpur(2023)

Projects

Portfolio website | *Self Project* | **Website** | **GitHub**   *(May 2024 - June 2024)*
- Developed a portfolio website using **ReactJS** carrying an overview of professional capabilities, serving as a digital resume.
- Showcased responsive design through **media queries**, ensuring optimal viewing and functionality across all the devices.
- Utilized modern **JavaScript ES7+** features and **React hooks**, ensuring efficient state management and code maintainability.
- Implemented a functional **"Contact"** section using **HTML forms** and **Formspree.io** for seamless email communication.
- Incorporated a dark and light theme switcher using **React Hooks** and **CSS**, enhancing user experience and accessibility.
- Deployed the project using a reliable hosting service provided by **Netlify**, ensuring high availability and robust performance

Cryp-Pro | *Self Project* | **Website** | **GitHub**   *(June 2024 - Present)*
- Developed a Crypto Tracker web application using **ReactJS**, delivering real-time tracking of diverse cryptocurrencies.
- Utilized external **APIs** to fetch real-time data and news, ensuring precise updates on prices, news, and market trends.
- Implemented interactive charts using **Chart.js** to visualize historical cryptocurrency data and market trends effectively.
- Created multiple pages and utilized **React Router DOM** to manage smooth navigation & provide seamless user experience.
- Employed **Express.js** to implement secure user authentication, ensuring efficient access management in web application.
- Developed a **MongoDB Atlas database** for secure user data management and stored passwords using **bcrypt-encryption**.
- Currently enhancing backend capabilities, focusing on **user database integration** to deliver personalized experiences.

C++ Console Based Projects | *Self Project* | **GitHub**   *(May 2024)*
- Engineered intuitive console-based applications, such as a versatile Calculator and captivating games like Tic-Tac-Toe and Number Guessing Game, leveraging knowledge in Data Structures and Algorithms to deliver immersive user interaction.

Car Parking System using Arduino | *Course Project* | **YouTube**   *(May 2023 - June 2023)*
- Engineered and deployed an automated car parking system using **Arduino** technology through innovative solutions.
- Utilized **IR sensors** for vehicle detection, **LCD** for real-time information, and **servo motor** for entry and exit mechanisms.
- Collaborated with an interdisciplinary team to integrate hardware and software, enhancing reliability and functionality.
- Developed code in **Arduino IDE** to integrate and manage functionality across various sensors and hardware components.

Relevant Coursework and MOOCs

Programming and Data Structures (Theory and Lab) | Probability and Statistics | Algozenith (applied Algo and DS)

Technical Skills

- **Programming Languages and Libraries:** C | C++ | JavaScript | Standard Template Library (STL) | ChartJS
- **Frontend Development and Tools:** HTML | CSS | ReactJS | Bootstrap | Visual Studio Code | SolidWorks | PyMOL
- **Familiar in:** Git | NodeJS | ExpressJS | MongoDB

Position of Responsibility

Kshitij Campus Affiliate | Techno-Management fest- **Kshitij,** IIT Kharagpur   *(Nov 2023 - Jan 2023)*
- As part of a team, successfully orchestrated **Asia's largest** Techno-Management fest, and carried out the **Droid Blitz** Event.

Captain | **Gokhale Hall of Residence Cricket team** | IIT Kharagpur   *(Jan 2023)*
- Captained and scored the **most runs** from the side in **Inter-Hall Cricket Competition** conducted by TSG, IIT Kharagpur.