THAKRE HIMANSHOO RAJESHKUMAR | 21CH30063

B.Tech.(Hons.) in CHEMICAL ENGINEERING and M.Tech. in CHEMICAL ENGINEERING

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2025	M.TECH Dual Degree 5Y	IIT Kharagpur	7.49 / 10
2020	MSBSHSE	St.Paul Junior College, Nagpur	83.02%
2018	CBSE	Shirinbai Neterwala School, Tumsar	88.2%

COMPETITION/CONFERENCE

- Achieved **Specialist** title with a peak rating **1448** on Codeforces, showcasing strong competitive programming skills (handle: himansh00)
- Attained a rank of **159** out of **15,900+** contestants in Codeforces Round 954 (Div. 3), showcasing strong algorithmic problem-solving skills
- Achieved 3-star status with a peak rating **1690** on CodeChef, showcasing advanced competitive programming skills (handle: himansh00)

INTERNSHIPS

Full Stack Developer Intern | Insteasy [May' 25- Jul'25]

- Increased subscription conversion by **35%** by integrating the **PayPal Gateway** via **REST APIs**, ensuring seamless transactions and security
- Boosted visibility and lead generation by **15%** by developing a marketing website using **ReactJS**, hosted on **Hostinger** and optimizing SEO
- Improved efficiency and accelerated the release cycles by implementing CI/CD pipeline integrated with Lovable, automating deployments
- Enhanced workflow efficiency by deploying embeddings-based plugins on monday.com, integrating Google apps in **monorepo** architecture

Full Stack Developer Intern | Insteasy [May' 24- Jun'24]

- Increased net load speed by **25%** and strengthened UI consistency by refactoring and redesigning the dashboard using **Angular** and **Ionic**
- Reduced server response time by **15%** and enhanced core system performance by developing and optimizing reusable REST API endpoints
- Lowered user drop-off rate by **20%** and streamlined seamless onboarding by implementing **OAuth** for third-party login, boosting security
- Ensured a reliable, scalable, and secure environment by deploying the application on **Heroku**, streamlining smooth deployment processes

PROJECTS

Custom User-Level Thread Library for Linux | Operating Systems | Self Project [Jan'25]

- Built a user-level thread library from scratch using the **clone()** system call, with support for thread creation, join and termination with **TIDs**
- Implemented **mutexes** and **barriers** through **Linux semaphores** to ensure synchronization, prevent deadlocks, and manage concurrency
- Designed **thread** termination routines (**foothread_exit**) that enabled joinable threads, avoiding premature exits and ensuring safe cleanup
- Validated the library with a **tree summation** application, clearly demonstrating correctness in both **parallel execution** and synchronization

Cultural Festival Management Web Application | Database Management | Self Project [Feb'24]

- Ensured data integrity by designing **SQL** relational database with optimized queries and triggers to enforce constraints and maintain data
- Implemented secure authentication and **role-based access control** for participants, students, volunteers, organizers and administrators
- Built interactive **admin dashboards** to efficiently manage events, student records, logistics and accommodations for external participants
- Streamlined registrations and scheduling workflows through **query optimization**, reducing redundancy and improving system efficiency

Advanced Question Search Engine | Self Project [June'23]

- Engineered an search engine using **Term Frequency-Inverse Document Frequency** (TF-IDF) algorithm for efficient information retrieval
- Achieved reliable and high-precision data extraction at scale by automating web scraping workflows with **Selenium** and **Chrome Driver**
- Scraped **2400+** DSA problems from LeetCode, including titles, links, and detailed descriptions using Beautiful Soup and Selenium driver
- Developed a dynamic **Flask**-based interface with **HTML/CSS/JavaScript**, optimizing the search process and enhancing user experience

COURSEWORK INFORMATION

- Programming and Data Structure
- Data Structure and Algorithm (MOOCs)
- Advanced Calculus
- Computer Aided Process Engineering
- Architecture and Protocols for Internet of Things
- Artificial Intelligence Foundation and Application

SKILLS AND EXPERTISE

Programming Languages and Libraries: C | C++ | C++STL| JavaScript | SQL | Python | HTML | CSS | TypeScript | Bash
Development Frameworks and Databases: ReactJS | Django | Angular | Node.js | Ionic | MongoDB | Firebase | PostgreSQL | MySQL
Tools and Software: Git and GitHub | Bitbucket | Jira | AWS | Google Cloud | Heroku | WordPress | MATLAB | AutoCAD | VS Code

POSITIONS OF RESPONSIBILITY

General Secretary Mess | Nehru Hall Of Residence [Aug'24- Apr'25]

- Managed an annual budget of **1.29 crore**, ensuring efficient mess operations and cost control for **445** boarders of Nehru Hall of Residence
- Supervised **30+** dedicated staff members, ensuring consistent food quality and timely service, catering to the daily needs of 445 boarders
- Achieved a **4.7/5** mess rating from the Food Assessment Committee, one of the highest among hostels, reflecting excellence in food quality

Design and Media Subhead | Kshitij, IIT Kharagpur [Jul'22 - Apr'23]

- Reached a wide audience of **14,000+** followers by creating visually appealing and attention-grabbing social media posts to promote Kshitij
- Fostered key professional growth and development of **19** design associates by mentoring and guiding the team with consistent support

Governing Batch | Technology Filmmaking and Photography Society [Jan'22- Present]

- Produced **6+ short films**, including a virtual mode film created within 50 hours, working as both cinematographer and editor for IFP 2022
- Successfully directed a thought-provoking short film by both leading and mentoring a team of **seven** for the annual Freshers Production

EXTRA CURRICULAR ACTIVITIES

- Contributed as a Cinematographer in the **GOLD**-winning Filmmaking Contingent of IIT Kharagpur at **Inter-IIT** Cultural Meet 5.0, IIT Madras
- Mentored, guided, and provided essential academic guidance to a team of **3** freshmen under Student Welfare Group (SWG), IIT Kharagpur

!Self declared by the student, CDC could not verify the relevant documents