ARYAN TAYAL | 21MF10048

MANUFACTURING SCIENCE & ENGG.(B.Tech 4Y)

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2025	B.TECH	IIT Kharagpur	8.28 / 10
2020	CBSE	PMS PUBLIC SCHOOL, Moradabad	89.4%
2018	CBSE	PMS PUBLIC SCHOOL, Moradabad	95%

INTERNSHIPS

Frontend Developer | Koyo Software Solutions   **(April'23- May'23)**
- Spearheaded the complete redesign and enhancement of a pet-related website, making it visually appealing with the help of **ReactJs** and **CSS**
- Implemented a multi-lingual system by seamlessly integrating the powerful **react-i18next** npm package enabling to cater to a diverse global audience

PROJECTS

Facebook Messenger Chat Application   **(Jan'23)**
- Developed a robust Chat app utilizing Routing, **Firebase** Social Login (including Google and Facebook), React Context API, **Chat Engine**, and **REST APIs**
- Integrated Firebase Social Login, including Google and Facebook authentication, to provide users with a secure and convenient login experience
- Leveraged the power of **React Context API** to manage application state, allowing for centralized management of data across different components

Efficient Task Management: "To Do List" Chrome Extension   **(April'23)**
- Developed a sleek and efficicent "To Do List" **Chrome extension**, empowering users to effortlessly manage tasks with a user-friendly interface
- Implemented robust functionality for adding, editing, and deleting tasks, and incorporated a dynamic task status feature to mark and delete tasks
- Leveraged **HTML**, **CSS**, and **JavaScript** to create an intuitive and seamless user experience utilizing local storage for data persistence

Dice Master: Multiplayer Dice Game   **(June'22)**
- Utilized JavaScript, HTML, and CSS to develop a dynamic and engaging Dice Game, showcasing proficiency in front-end web development technologies
- Implemented complex game logic, leveraging **JavaScript** to handle player turns, dice rolls, and score tracking, ensuring smooth gaming experience
- Designed an engaging & attractive user interface with responsive design using **CSS** and **HTML**, incorporating interactive buttons and visual feedback

CERTIFICATIONS

Algorithm and Data Structures| Algozenith   **(Dec'22- April'23)**
- Learnt and built understanding of several topics like Standard Template Library (STL), space and time complexity, combinatorial mathematics, binary search, recursion, backtracking, divide and conquer, meet in the middle, sorting and some advaced topics like dynamic programming, graphs, trees

SKILLS AND EXPERTISE

- **Languages:** C++ | C | Python | Javascript | HTML5 | CSS
- **Frameworks/Database**: React.js |Bootstrap| Firebase
- **Tools:** Git | Github | FreeCAD | VS Code | MS-Excel | MS-Powerpoint | G Suite
- **Design Tools:** Adobe Photoshop | Illustrator | Canva | Premiere Pro | Blender

COURSEWORK INFORMATION

- **Mathematics and Computer Science:** Programming and Data Structures (Theory + Lab) | Probability and Statistics | Operations Research - 1 | Advanced Calculus | Linear Algebra, Numerical and Complex Analysis | Transform Calculus | Theory of Partial Differential Equations
- **Others:** Economics | Introduction To Innovation And Entrepreneurship | Reliability Engineering | DIY Laboratory | Basic Electronics(Theory + Lab)

COMPETITION/CONFERENCE

Green Canvas | Megalith, IIT Kharagpur   **(April'22)**
- Lead a team of 5 people, conducted case study to find solutions for conserving the nature by proper handling and disposing of biomedical waste
- Conducted both quantitative and qualitative research on the problem statement, placed **2nd** in nationwide competition among various teams

Global International Batch | Case Study Competition   **(Nov'22)**
- Lead a 4-membered team (2 Indians, 2 Foreigners) and presented a startup idea of a Mobile application Glo-Pal to help travelers all around the globe
- Performed in-depth market research and analysis, identified target market, created a market entry strategy, developed an in-depth revenue model

AWARDS AND ACHIEVEMENTS

- Ranked within the top **7 percent** of all 1,41,699 candidates who appeared for the Joint Entrance Examination (JEE) Advanced 2021,conducted by NTA
- Ranked within the top **2 percent** of all 10,26,799 candidates who appeared for the Joint Entrance Examination (JEE) Mains 2021, conducted by NTA
- Awarded department change for ranking among top **5 percent** (out of 1800+) students based on freshman year academic excellence at IIT Kharagpur

POSITIONS OF RESPONSIBILITY

Mentor | AlgoZenith Technologies Pvt Ltd   **(July'23 - Present)**
- Mentoring students throughout theirjourney of learning **Data Structures and Algorithms**, providing guidance as they prepare for tech interviews

Senior Member | ShARE,IIT KHARAGPUR   **(Mar'23-Present)**
- Managed the **Startup team** of the local chapter of the global leadership programme to collaborate with startups following **Do Well Do Good** concept
- Lead a team of 5 people to find new and different uses of recycled textile fiber for a project under the startup **E-Waste Social** located at Bengaluru

Secretary | Communique | Technology Students' Gymkhana IIT Kharagpur   **(July22 - April'23)**
- Supervised a team of **30** members and organized over 3 panel discussions for Tech profileand workshops with a **100+** footfall in every panel discussion
- Conducted **Global Model United Nations 2023**, IIT KGP consisting of the participants from all over India with a team coonsisting of 22 members

EXTRA CURRICULAR ACTIVITIES

National Social Service, IIT Kharagpur
- Trained in **CPR,** Conducted discussions on **Mental Health** issues, Sex Education as well as actively participated in a **plantation** drive during NSS camp
- Captivated over **300** individuals with an impactful Nukkad on "Unveiling the Detrimental Effects of Alcohol and Drugs" in Malma village, West Bengal