

Tushar Aggarwal

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EDUCATION

- Delhi Technological University** Delhi, India
 - Bachelor of Technology - Mechanical with specialization in Automotive; GPA: 8.08/10* *Aug 2018 - May 2022*
 - Courses: Programming Fundamentals, Data Structures, Operating Systems, Computer Networking, Python, Competitive Programming*
 - Scholastic Achievement : Department Rank 1 in 5th Semester in a batch of 65 students.*

SKILLS

- Languages:** C++, Python, JavaScript, Typescript, Django, HTML, CSS, SQL, C, JAVA
- Framework and tools:** NodeJS, ExpressJS, ReactJS, Firebase, Git, Vercel
- Interpersonal Skills:** Written & Verbal Communication, Critical Thinking, Problem-solving, Time Management

EXPERIENCE

- Chegg Inc.** Remote
 - Subject Matter Expert - Software Engineering (Full-time)* *Jan 2022 - Present*
 - Managing in-demand support for technical questions and guidance requests through chat-based live technical tutoring and reviewing students' checkpoint submissions, impacting education of thousands of students.
 - Developing new website for integrating Authentication, Authorization and infrastructure setup of employees of Thinkful department of Chegg Delhi division.
 - Technical Skills Gained: JavaScript, NodeJS, ReactJS, PostgreSQL, Django
- AsknBid Tech** Remote
 - Software Developer Intern* *Dec 2021 - Jan 2022*
 - Developed the UI of a social media application that was soon to be released using Material UI and NextJS.
 - Implemented Firebase authentication for micro services. Responsible for the res-design of micro service page using ReactJS.
 - Technical Skills Gained: TypeScript, NodeJS, ReactJS, Firebase
- Defence Research and Development Organization** Delhi, India
 - Summer Research Intern* *July 2021 - Sept 2021*
 - Worked on a confidential research project to build a cylinder for the Dornier [DO-228] aircraft's automatic fire prevention system.
 - Examined the outcomes and essential performance parameters for storing of high-pressure fluids inside cylinder.
 - Technical Skills Gained: Matlab, Solidworks, Ansys

PROJECTS & PUBLICATIONS

- Project The Purple Sunset:** A fully functional production grade web app for a thrift store that includes Strapi to verify payments and auth0 for easy login. Tech: NextJS, GraphQL
- Project House Marketplace:** A place for you to Sign-Up and sell/rent your house. Other users can reach out to you with the provided information. Tech: ReactJS, Firebase
- Project YelpCamp:** Leave reviews and comments on other user's camps and connect to find out your favourite campground. Sign up, Log in, rate and create camps. Tech: NodeJS, ExpressJS, MongoDB, EJS
- Review article:** "Evaluation of efficacy of various computer intelligence strategies in predicting the frequency of accidents" Studied existing technologies for detecting risky driving tendencies in a vehicle and using that information to anticipate accidents. The article is under communication.
- T. Aggarwal;** S. Thareja, S. Bahadur and J. P. Kesari, "Energy Storage System with Artificial Neural Networks using PI Hybrid Controllers," 2022 International Virtual Conference on Power Engineering Computing and Control: Developments in Electric Vehicles and Energy Sector for Sustainable Future (PECCON), 2022, <https://doi.org/10.1109/PECCON55017.2022.9851074>

HONORS AND AWARDS

- Shell Eco Marathon Global Winner**, Pitch the Future 2021
- Shell Eco Marathon Best Vehicle Design** - Asia 2020, Malaysia
- Digital Citizenship and Cyber Wellness Olympiad Awardee**, under the two top categories.
- Microsoft Office PowerPoint 2013 specialist** 4th position all over India in COMPUDON season VIII
- Finalist at Intel ISEF 2017**, world's largest pre-collegiate science fair.

LEADERSHIP

- Student Advisor and Head (ECE Dept.), Team DTU Supermileage** Delhi, India
 - Spearheaded a team of 50+ members to manage all operations of automotive research.* *Jan 2020 - Jan 2022*
- Active leader at SOUL OF LIFE, NGO for welfare society** Delhi, India
 - Organized events, conducted workshops and delivered workshops reaching over 1000+ children.* *Jan 2018 - Present*