

Patel Arpit

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EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2021	Dual Degree in Mechanical Engineering	IIT Kharagpur	7.10/10
2016	Higher Secondary School Certificate	Gujarat State Educational Board	90.46%
2014	Secondary School Certificate	Gujarat State Educational Board	90.83%

PROFESSIONAL WORK EXPERIENCE

IntelliSchools – Backend Web Developer Intern [April 2020 – June 2020]

- Worked on IntelliSchools' assessment portal which is made with the intention of assigning grades to students based on the questions and answers that would be determined by their teacher in advance.

Created and maintained pages with ASP.NET Webforms keeping a smooth user experience as a priority.

E-Ring IT Solutions, Hyderabad – Software Engineer [July 2021 – Jan 2022]

- Worked with ASP.NET Webforms to create and maintain webpages that will be used by the US government officials to carry out property tax evaluations and send receipts of the owner's due tax for the active tax year.
- Used MySQL to create stored procedures that will be used by the web form to access the data in the database.
- Worked on approximately 200 tester and user reported bugs within the system both in frontend and backend and fixed them making sure the code is future proof.

PROJECTS

- Created a task tracker single page application with the help of **React, Node, Express and MySQL**. It shows a list of tasks that the user has entered into the database via the app. It has the capabilities to create a task, delete a task and show all the tasks that exist in the database.
- Created a **React app** which displays posts in the form of thumbnails. Clicking the thumbnail opens the post and **allows you to see the detailed article**. This single page application can handle creating a post, deleting a post and editing a post along with fetching data from the database. Used **HTML, CSS, JavaScript** to handle the visual style and responsiveness of the website. The routing of the website has been handled manually with a "view" state. Created a **REST API** to handle the **CRUD** operations with the help of **Node.js** and **Express**, while storing the data in a database in **MySQL**.

COMPETITIONS

Hardware Modelling, General Championship Technology [Jan 2017 – April 2017]

- Part of the mechanical team which designed 'Drishti' – a lightweight, portable and inexpensive product which converts a pdf document into Braille and displays it with the help of small cylinders attached on the edges of an octagonal disk that represent the raised dots of a Braille character in order for a blind person to be able to read pdf documents or other important messages without having to rely on a TTS software.
- Awarded with a **Bronze** medal for the product.

Hardware Modelling, General Championship Technology [Jan 2018 – April 2018]

- Redesigned 'Drishti' to be approximately 20 times smaller which allowed the product to be stackable side by side allowing us to display 5 times more Braille characters in the same amount of space, further enhancing the reading speed of the user so that he doesn't have to wait for the characters to change and can read any piece of text at his own pace.
- Awarded with a **Bronze** medal for the product.

SKILLS/EXPERTISE

Relevant Courses Data Structures and Algorithms

Languages C/C++, C#, HTML, CSS, JavaScript, SQL

Tools React.js, Node.js, Express.js, ASP.NET Webforms, SolidWorks, ANSYS

POSITION OF RESPONSIBILITY

Captain, Hardware Modelling, General Championship Technology [Jan 2019 – April 2019]

- Created a team of 18 members, trained them to use the required tools and technologies and helped them understand how to solve a problem practically keeping in mind the different constraints like cost of production, ease of mass producing of the particular design, ease of access for users of all ages, weight etc.
- Designed and manufactured a multi-purpose, cheap and easy to manufacture and operate prosthetic arm.
- Brain Computer Interface was used to get brain signals to help move the arm of the user on will of the user.
- Managed a budget of INR 1,00,000 for manufacturing the product that will be submitted for the competition.