

Full Stack Web Development Internship Report
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Internship Provider: Microsoft Learn Student Ambassador (MLSA)

Objective of the Internship:

The Microsoft Learn Student Ambassador (MLSA) internship was designed to enhance skills in full-stack web development. The focus was on learning to build robust web applications from the ground up, gaining experience in both frontend development, and working with real-world APIs.

Software and Tools Used:

- **Frontend Technologies:** HTML, CSS, JavaScript (ES6)
 - **APIs:** OpenWeatherMap API (for weather data)
 - **Version Control:** GitHub (for tracking code changes and collaboration)
 - **Other Tools:** Visual Studio Code (IDE)
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Project 1: Todo List Application

- **Objective:** To develop a functional to-do list application for managing daily tasks.
 - **Description:** The project aimed at creating a user-friendly to-do list where users could add, manage, and remove tasks. The app utilized JavaScript for adding interactivity, allowing users to input tasks via a form and see the tasks dynamically added to the list. Each task could be deleted with a click, with changes reflected instantly without refreshing the page. CSS was used to style the interface, and JavaScript's event handling was critical in implementing the features.
 - **Key Learnings:** This project improved skills in JavaScript for event handling and DOM manipulation, reinforced by a solid understanding of how to create interactive web elements using HTML and CSS.
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Project 2: Weather App

- **Objective:** To create an application that fetches and displays real-time weather information for any city.
- **Description:** The Weather App used the OpenWeatherMap API to gather weather data. Users could input the name of a city, and the app would return details like temperature, weather description, humidity, and wind speed. This project helped Raunak learn how to

work with asynchronous API requests using JavaScript's fetch method, and dynamically update the UI based on the API responses.

- **Key Learnings:** This project solidified the understanding of APIs and how to handle asynchronous operations in JavaScript. Raunak also learned how to effectively structure a web application that retrieves external data and presents it dynamically to users.

Conclusion:

The MLSA internship provided a valuable hands-on experience in full-stack web development. Raunak's experience in building the Todo List and Weather App projects helped develop problem-solving skills, and improve proficiency in working with APIs, DOM manipulation, and building responsive, user-centric web applications.