



VIGNAN's

INSTITUTE OF INFORMATION TECHNOLOGY
(AUTONOMOUS)

(Approved by AICTE-New Delhi & Affiliated to JNTUGV, Vizianagaram)
Beside VSEZ, Duvvada, Vadlapudi Post, Gajuwaka, Visakhapatnam - 530 049.

A REPORT ON SUMMER INTERNSHIP

Name of the Student : JAMI HARSHA VARDHAN

Name of the College : Vignan's Institute of Information Technology

Registration Number : 22L31A0568

Period of Internship : 1 Months

From : 1-05-2024 to 1-6-2024

Year : 2nd Year

Name and Address of the Intern Organization: OCTONET SERVICES, ODDISHA

An Internship Report on
Business Analytics - SUMMER INTERNSHIP

Submitted in accordance with the requirement for the degree of

Bachelor of Technology
in
Computer Science & Engineering

By

JAMI HARSHA VARDHAN

22L31A0568



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

May 2024

DECLARATION

I, **JAMI HARSHA VARDHAN** Reg. No : **22L31A0568**, of the Department OF **Computer Science and Engineering** do hereby declare that I have completed the mandatory internship from OCTONET, Department Computer Science and Engineering, Vignan's Institute of Information Technology.

Signature of the Student

CERTIFICATE

This is to certify that JAMI HARSHA VARDHAN Reg. No.22L31A0568 has completed his Internship in OCTONET under my supervision as a part of partial fulfillment of the requirement for the Degree of in the Department of Computer Science and Engineering, Vignan's Institute of Information Technology. This is accepted for evaluation.

Head of the department

Mr. B. Dinesh Reddy

Assistant Professor

CERTIFICATE FROM INTERN ORGANIZATION

CERTIFICATE



Corporate Identity Number :
U62013OD2023PTC044081



TECH

OCTANET SERVICES PVT LTD.

This is to certify that

Jami Harshavardhan

Web Development Internship

Duration: 1 Month (1st May 2024 - 1st June 2024)

During the internship period, He/She has demonstrated exceptional dedication, enthusiasm and a strong willingness to learn. They actively engaged in various projects and tasks assigned to them, exhibiting remarkable skills and a high level of professionalism.

Verified By :

Anjali Prusty

Director & CEO
TECHOCTANET SERVICES PVT LTD



#startupindia



Verify at <https://verification.givemycertificate.com/v/03595174-f26d-4e86-b23f-184756552947>

Acknowledgements

I would like to express my sincere appreciation for the opportunity to complete my internship as a FRONT-END Developer in OCTONET from 1-5-2024 to 1-6-2024. I am also grateful to Vignan's Institute of Information Technology for providing me with the necessary skills and knowledge that laid the foundation for this enriching experience. I am deeply grateful to the faculty coordinator for support and guidance throughout my internship.

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CHAPTER 1: EXECUTIVE SUMMARY

This internship report provides an overview of my internship experience as an intern specialising in WEB DEVELOPMENT at OctaNet Services Pvt Ltd. The report highlights the learning objectives and outcomes achieved and summarizes the activities performed during the internship period.

Learning Objectives and Outcomes:

Proficiency in Web Development:

Develop and demonstrate the ability to design and build responsive and interactive web pages using HTML, CSS, and JavaScript.

Hands-On Application Building:

Gain practical experience by creating and deploying functional web applications, including a calculator app, an ecommerce website, a TO-DO list manager, and an interactive dots game.

Advanced Technical Skills:

Master JavaScript event handling, DOM manipulation, and responsive design principles to enhance user experiences and build efficient, maintainable code using modern front-end tools and frameworks.

Problem-Solving and Collaboration:

Strengthen technical problem-solving and teamwork skills by collaborating effectively on projects, creating clear documentation, and presenting solutions in a professional manner.

Outcome-Driven Projects:

By the end of the course, students will be capable of designing, implementing, and deploying fully functional web applications that solve real-world problems, demonstrating their ability to apply advanced web development techniques and industry best practices.

Internship Organization:

OctaNet Services Pvt. Ltd is a dynamic and innovative company dedicated to providing high-quality technologydriven solutions. With a commitment to excellence, compliance, and customer satisfaction, OctaNet operates as a recognized entity in the industry, offering tailored services to meet unique business needs.

Certifications and Recognitions :

1. **Ministry of Corporate Affairs Incorporation** Registered with the Ministry of Corporate Affairs, OctaNet ensures compliance and operates with full transparency.
2. **Startup India Recognition** Recognized by Startup India, OctaNet fosters innovation and entrepreneurship as part of its core mission
3. **ISO 9001:2015 Certification** This certification reflects OctaNet's commitment to maintaining the highest quality standards across its processes and services.
4. **MSME Registration** As a registered Micro, Small, and Medium Enterprise (MSME), OctaNet follows ethical business practices and contributes to the community's economic development.
5. **AICTE Internship Approval** Approved by the All India Council for Technical Education (AICTE), OctaNet provides valuable internship opportunities to foster skill development and learning.

ACTIVITY LOG FOR WEEK-1

Day	Date	Brief description of the daily activity	Learning Outcome
Day-1	1/05/2024	Attended orientation, discussed project scope, and outlined deliverables.	Understood the internship objectives, deliverables, and project requirements.
Day-2	2/05/2024	Installed required tools (VS Code, Git), set up a repository, and created a project folder structure.	Learned how to set up a development environment and use version control tools.
Day-3	3/05/2024	Practiced HTML fundamentals and created wireframes for the To- Do List app.	Gained proficiency in structuring web pages and visualizing layouts.
Day-4	4/05/2024	Styled static HTML using CSS, focusing on colors, fonts, and layouts.	Learned to apply CSS for creating visually appealing designs.

Day-5	6/5/2024	Applied CSS Flexbox and Grid for responsive layouts..	Developed skills to ensure web pages adapt to various screen sizes.
Day-6	7/05/2024	Practiced basic JavaScript syntax and wrote simple scripts.	Understood the fundamentals of JavaScript programming.

WEEKLY REPORT

WEEK – 1 (From Date: 1/05/2024 to Date: 7/05/2024)

Objective of the Activity Done: Learning Basics and Setting Up the Project

Detailed Report:

Day 1:

Learned the goal of developing a "Daily To-Do List" app for students. Researched the app's layout and functionality, including features like adding, deleting, and marking tasks as completed. Planned the project structure and identified the tools and technologies to be used.

Day 2:

Set up the development environment by installing VS Code, Git, and browser extensions for debugging. Created the initial folder structure and set up a Git repository for version control. Practiced basic HTML by creating a simple skeleton for the To-Do List app.

Day 3:

Designed the wireframe for the To-Do List app, focusing on a clean and intuitive layout. Learned and practiced CSS basics for styling, including colors, fonts, and spacing. Experimented with basic design elements to enhance the user interface.

Day 4:

Explored CSS Flexbox and Grid for responsive design. Applied these techniques to the To-Do List layout to ensure it adapts to various screen sizes. Created and styled a task input box, add button, and placeholder for task items.

Day 5:

Started learning JavaScript basics, including syntax, variables, and functions. Created simple scripts to practice DOM manipulation and event handling, preparing for the next step of integrating functionality into the app.

Day 6:

Experimented with JavaScript event listeners and learned how to capture user interactions like button clicks.

Tested basic scripts to dynamically add and remove elements from the DOM, laying the groundwork for management features.

CHAPTER-2: ACTIVITY LOG FOR WEEK-2

Day	Date	Brief description of the daily activity	Learning Outcome
Day-7	8/5/2024	Created interactive features using JavaScript event listeners and functions.	Learned to handle events like clicks and keypresses to make the page interactive.
Day-8	9/5/2024	Built the basic layout for the ToDo List app using HTML and CSS	Practiced combining HTML and CSS to structure and style a functional interface.
Day-9	10/5/2024	Implemented the feature to add tasks to the To-Do List.	Understood how to use JavaScript to manipulate the DOM dynamically.
Day-10	11/5/2024	Added functionality to remove tasks from the list.	Learned to implement task-specific event handling and data updating.
Day-11	13/5/2024	Tested and debugged the app to ensure smooth functionality.	Improved debugging skills and ensured code quality and functionality.
Day-12	14/5/2024	Created a toggle feature to mark tasks as completed or uncompleted.	Enhanced problem-solving skills by managing state changes in the app.

WEEKLY REPORT

WEEK – 2 (From Date: 8/05/2024 to Date: 14/05/2024)

Objective of the Activity Done: Building Core Functionality

Detailed Report:

Day 1:

Implemented the feature to add tasks to the To-Do List. Used JavaScript event listeners to capture user input and dynamically update the list. Ensured tasks appear in a structured and visually distinct manner.

Day 2:

Added functionality to delete tasks from the list. Linked delete buttons to each task item and used DOM manipulation to remove the corresponding task. Tested the feature for smooth operation.

Day 3:

Created the feature to mark tasks as completed. Used JavaScript to toggle a "completed" class when users click on a task, visually differentiating completed tasks with a strikethrough effect.

Day 4:

Refined the task addition and deletion features to handle edge cases, such as empty input fields and invalid data. Updated the app's logic to ensure a smooth user experience.

Day 5:

Improved the layout with CSS animations and hover effects. Added subtle transitions for task interactions, like fading out tasks when deleted or highlighting them on hover. Enhanced the app's visual appeal.

Day 6:

Tested the app for functionality and layout consistency across different browsers and devices. Fixed minor bugs and ensured all core features worked as intended. Documented the progress and challenges faced during the week.

CHAPTER-3 ACTIVITY LOG FOR WEEK-3

Day	Date	Brief description of the daily activity	Learning Outcome
Day-13	15/05/2024	Implemented a search bar to filter tasks based on keywords.	Learned to optimize user interaction with filtering functionality.
Day-14	16/05/2024	Added local storage functionality to save tasks persistently..	Understood how to use browser storage to retain user data.
Day-15	17/05/2024	Used CSS transitions and animations to enhance user experience.	Enhanced front-end skills with UI/UX improvements through animations.
Day-16	19/05/2024	Ensured that the To-Do List app works seamlessly on mobile devices.	Strengthened knowledge of responsive design and media queries.
Day-17	20/05/2024	Added ARIA labels and ensured the app is accessible to all users.	Learned accessibility best practices for web applications.
Day-18	21/05/2024	Gathered feedback and made iterative improvements to the app.	Understood the importance of user feedback in iterative development.

WEEKLY REPORT

WEEK-3 (FROM DATE : 15/05/24 to Date : 21/05/24)

Objective of the Activity Done : Enhancing User Experience

Detailed Report :

Day 1:

Introduced a search bar to filter tasks. Implemented JavaScript logic to dynamically hide or show tasks based on user input. Tested the feature for accuracy and responsiveness.

Day 2:

Integrated local storage to save tasks persistently. Ensured tasks are loaded from storage when the app is reopened and saved when tasks are added, deleted, or updated.

Day 3:

Enhanced the app's design by applying CSS transitions for smoother animations. Made the buttons and input fields more visually appealing with rounded corners, shadows, and color themes.

Day 4:

Optimized the app for mobile devices by refining its responsiveness. Ensured the layout adapts perfectly to smaller screens with touch-friendly elements and appropriate spacing.

Day 5:

Focused on accessibility improvements by adding ARIA labels and testing keyboard navigation. Ensured the app meets basic web accessibility standards for an inclusive user experience.

Day 6:

Conducted user testing to gather feedback on the app's functionality and design. Used feedback to make iterative improvements, such as adjusting button sizes and improving task visibility.

CHAPTER-4 :ACTIVITY LOG FOR WEEK-4

Day	Date	Brief description of the daily activity	Learning Outcome
Day-19	22/05/2024	Conducted extensive testing for bugs and fixed any issues.	Learned testing techniques to ensure the stability of web applications.
Day-20	23/05/2024	Wrote technical documentation, including code comments and a user guide.	Improved skills in documenting projects clearly and professionally.
Day-21	24/05/2024	Deployed the app using GitHub Pages or Netlify.	Understood the process of deploying web applications to hosting platforms.
Day-22	25/05/2024	Created a presentation showcasing the features and development process.	Learned how to communicate technical concepts effectively.
Day-23	27/05/2024	Reflected on the learning experience and prepared a summary report.	Recognized personal growth and technical skills acquired during the internship.
Day-24	28/05/2024	Presented the project to mentors and peers, highlighting key features.	Improved public speaking and project presentation skills.

WEEKLY REPORT

WEEK – 4 (From Date:22-05-2024: to Date:28-05-2024)

Objective of the Activity Done: Finalizing and Deployment

Detailed Report:

Day 1:

Performed extensive testing to identify and fix any remaining bugs. Tested the app's performance across different browsers, devices, and screen sizes to ensure consistency.

Day 2:

Prepared technical documentation for the app, including detailed descriptions of features, code structure, and usage instructions. Wrote comments in the code for better readability and maintainability.

Day 3:

Deployed the app on GitHub Pages, making it accessible online. Verified the deployment process and ensured all links and features worked as expected.

Day 4:

Created a presentation showcasing the app's features, development process, and challenges faced during the internship. Designed slides with screenshots and key highlights of the project.

Day 5:

Presented the project to mentors and peers. Highlighted the app's functionality, user experience, and technical implementation. Received valuable feedback and reflected on the learning journey.

Day 6:

Compiled a detailed internship report summarizing the skills gained, tasks completed, and personal growth achieved. Reflected on areas for future improvement and career aspirations in web development.

CHAPTER 5: OUTCOMES DESCRIPTION

Work Environment Experienced:

During the internship, the work environment was highly collaborative and structured. Tasks were clearly defined, and the workflow involved regular discussions with mentors and team members to clarify goals and resolve challenges. The environment encouraged learning and growth, providing hands-on opportunities to build a functional web application from scratch. Constructive feedback and real-time testing played a significant role in improving the final product.

Real-Time Technical Skills Acquired:

- 1. Web Development Skills:** Proficiency in HTML, CSS, and JavaScript, including building responsive designs and interactive user interfaces.
- 2. JavaScript Techniques:** Mastered DOM manipulation, event handling, and advanced features like local storage for data persistence.
- 3. Responsive Design:** Gained experience in creating layouts using CSS Flexbox and Grid to ensure crossdevice compatibility.
- 4. Version Control:** Learned to use Git and GitHub for managing code repositories and deploying the project online.
- 5. Debugging and Testing:** Enhanced problem-solving abilities by testing, identifying, and fixing issues to ensure a smooth user experience.
- 6. UI/UX Enhancements:** Improved design aesthetics with animations, transitions, and accessibility features for an inclusive app experience.

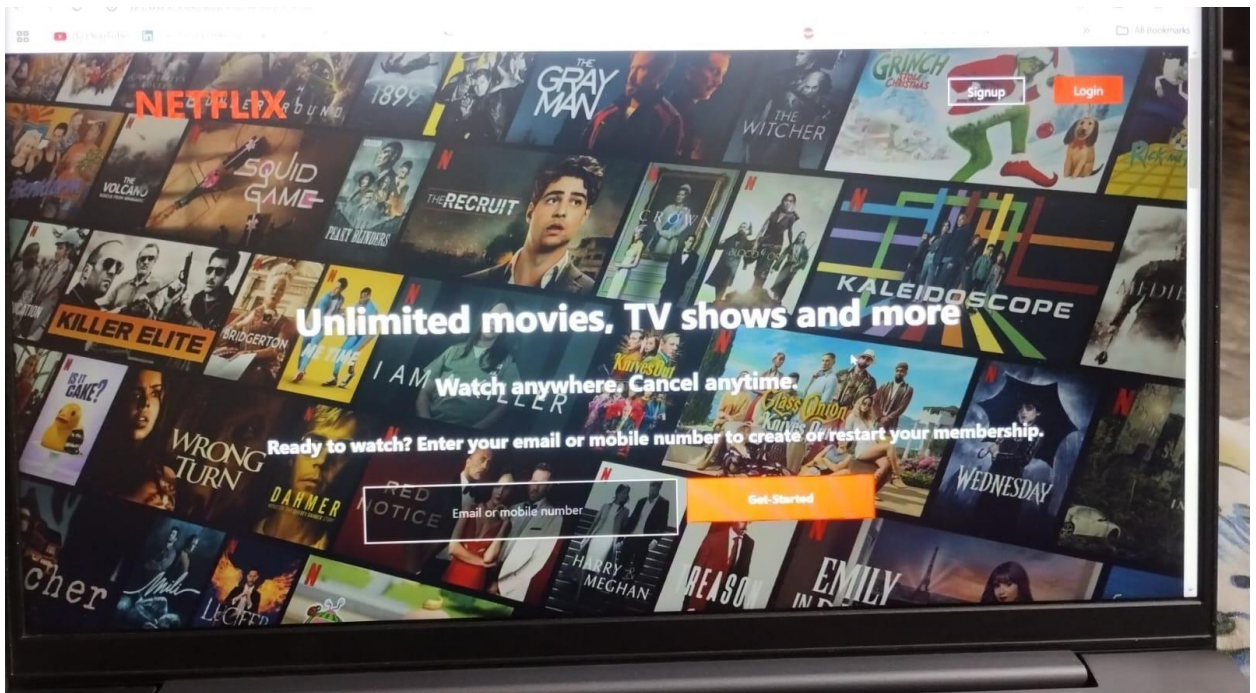
How I Could Improve My Communication Skills:

- 1. Active Participation:** Engaging more actively in team discussions and seeking feedback more frequently to refine ideas and approaches.
- 2. Clear Documentation:** Writing detailed and concise project documentation, which helps convey technical information effectively.
- 3. Presentation Practice:** Enhancing public speaking skills by practicing project presentations and explaining technical concepts in simple terms.
- 4. Listening Skills:** Developing better listening habits to understand feedback and suggestions more effectively during team interactions.

DAILY ACTIVITY PHOTOS

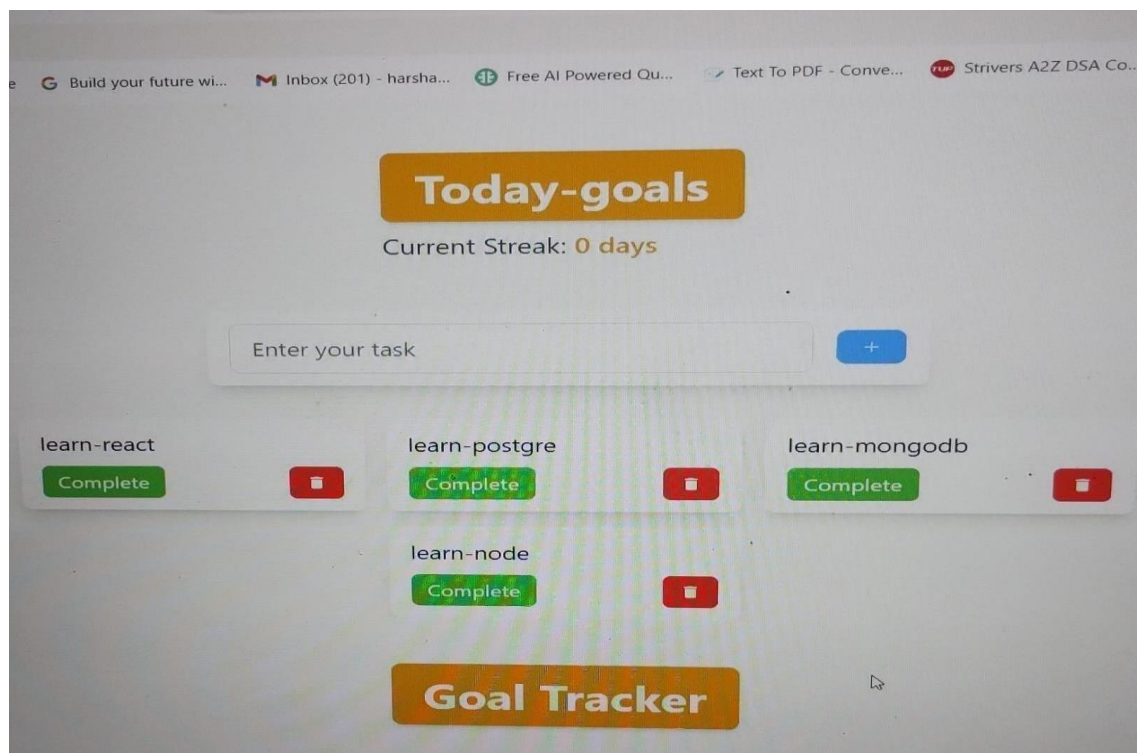
NETFLIX CLONE:

```
index.html > index.html > head
2 <html lang="en">
16 <body>
17 <div class="head relative border-b-8 border-slate-800">
18 <div class="absolute top-80 lg:ml-[350px]">
19 <div class="absolute top-80 lg:ml-[350px]">
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```



TO-DO LIST:

```
Run Terminal Help ← → To-do-applic
App.jsx
rc > App.jsx > App > setLastCompletedDate
1 import React, { useState, useEffect } from "react";
2 import { MdDelete } from "react-icons/md";
3 import { IoAddOutline } from "react-icons/io5";
4 import CalendarStreak from "../calendar";
5 function App() {
6   const [newTask, setNewTask] = useState("");
7   const [tasks, setTasks] = useState([]);
8   const [streak, setStreak] = useState(0);
9   const [lastCompletedDate, setLastCompletedDate] = useState(null);
10
11   useEffect(() => {
12     const today = new Date().toDateString();
13     if (lastCompletedDate && lastCompletedDate !== today)
14     {
15       const yesterday = new Date();
16       yesterday.setDate(yesterday.getDate() - 1);
17       if (lastCompletedDate === yesterday.toDateString()) {
18         setStreak((preStreak) => preStreak + 1);
19       }
20     }
21     else {
22       setStreak(0);
23     }
24   });
25
26   function handleInputText(event) {
27     setNewTask(event.target.value);
28   }
29
30   function addTask() {
31     if (newTask.trim() !== "") {
32       setTasks((prevTasks) => [...prevTasks, { text: newTask, completed: false }]);
33       setNewTask("");
34     }
35   }
36
37   function deleteTask(index) {
38     setTasks((prevTasks) => prevTasks.filter((_, i) => i !== index));
39   }
40
41   connect
```



FINDING RENTAL HOME:


```
Run Terminal Help < -> hotel booking project
index.html U {} houses.json M JS server.js M X
use-rental-backend > JS server.js > ...
1  const express = require("express");
2  const fs = require("fs");
3  const path = require("path");
4  const bodyParser = require("body-parser");
5  const app = express();
6  const port = 4000;
7
8  // Middleware to parse URL-encoded bodies [for form submissions]
9  app.use(bodyParser.urlencoded({ extended: true }));
10
11 // Serve static files (e.g., HTML, CSS, JS)
12 app.use(express.static(path.join(__dirname, "public")));
13
14 // Route to serve the homepage
15 app.get("/", (req, res) => {
16   res.sendFile(path.join(__dirname, "public", "index.html"));
17 });
18
19 // Route to serve the login page
20 app.get("/login", (req, res) => {
21   res.sendFile(path.join(__dirname, "public", "login.html"));
22 });
23
24 const houses = JSON.parse(fs.readFileSync("houses.json", "utf8"));
25
26 app.get("/api/houses", (req, res) => {
27   const { city, min_rent, max_rent, rooms, family_size } = req.query;
28
29   let filteredHouses = houses;
30
31   if (city) {
32     filteredHouses = filteredHouses.filter(
33       (house) => house.city.toLowerCase() === city.toLowerCase()
34     );
35   }
36
37   if (min_rent && max_rent) {
38     filteredHouses = filteredHouses.filter(
39       (house) =>
40         house.rent > parseInt(min_rent) && house.rent < parseInt(max_rent)
41     );
42   }
43
44   res.json(filteredHouses);
45 });
46
47 app.listen(port, () => console.log(`Server is running on port ${port}`));
```

