Summer Internship/ Practical Training Report

Submitted in partial fulfilment of the requirement of the degree of

BACHELOR OF TECHNOLOGY in CSE

to

K.R Mangalam University

Completed at:

TerraCods Technology

Internship Period: 01-06-2025 to 31-07-2025

Submitted by:

Shanvi Mathuria[2201010081]

B.Tech CSE

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TERRACODS
DESIGN ▸ DEVELOPMENT ● MEDIA

TerraCods Technologies

B1/H3, NH-19, Block B,

Mohan Cooperative Industrial Estate,

New Delhi - 110044

Letter No.: TL128

Date: 29th May, 2025

To,

Ms. Shanvi Mathuria

Dear Shanvi Mathuria,

We are pleased to offer you a two-month internship position at **TerraCods Technologies**, starting from **1st June 2025**, for the project titled:

"Development of a Dynamic Portfolio Website for a Media Agency"

This opportunity is extended in recognition of your academic background, enthusiasm, and the potential we see in your contribution toward real-time project development.

Your internship will be based at our office located at **B1/H3, NH-19, Block B, Mohan Cooperative Industrial Estate, New Delhi – 110044**, or may be conducted remotely depending on project requirements and mutual agreement.

Terms of Internship:

1. **Duration**
   The internship will run for a period of **2 months**, from **1st June 2025 to 31st July 2025**.
2. **Nature of Work**
   You will be working on live project tasks under the mentorship of senior developers. This includes front-end and back-end components required for building a dynamic web portfolio for a media agency. You are expected to maintain a professional work ethic and submit deliverables within assigned timelines.
3. **Stipend**
   Please note that this is an **unpaid internship**. No stipend will be provided during the internship period.
4. **Attendance and Reporting**
   You are expected to maintain regular communication with your assigned mentor and provide weekly progress updates. Specific reporting structures will be shared on the first day of your internship.
5. **Confidentiality**
   During the course of your internship, you may be exposed to confidential information related to company operations or clients. You are expected to maintain strict confidentiality and not disclose any proprietary information to third parties during or after the internship period.
6. **Certification**
   Upon successful completion of the internship and satisfactory performance, you will be awarded an **Internship Completion Certificate** outlining your contribution to the project.

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7. **Documentation**
   You are required to submit a copy of your government-issued ID proof and a copy of your latest academic transcript prior to commencement of the internship.

Kindly review the terms mentioned above and confirm your acceptance by signing and returning a copy of this letter via email. We look forward to having you onboard and believe this internship will be mutually enriching.

Best regards,

TerraCods Media & Technologies Delhi

Akansha

TerraCods Technologies
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TERRACODS
DESIGN ▸ DEVELOPMENT ● MEDIA

DATE: 1st AUGUST, 2025

To Whom It May Concern,

Subject: Internship Completion and Experience Letter for **Ms. Shanvi Mathuria**

Dear Sir/Madam,

We are pleased to confirm that **Ms. Shanvi Mathuria** has successfully completed his internship at **TerraCods** from 1st June, 2025 to 1st August, 2025. During his tenure with us, she worked as a **Web Development Intern**.

Throughout the internship, Ms. Shanvi demonstrated a strong work ethic and a genuine enthusiasm for learning. Her responsibilities included:

-Assisting in the development and maintenance of our Client's website.
-Collaborating with the design team to implement new features and improve existing ones.
-Debugging and troubleshooting issues on the website.
-Writing clean, efficient, and well-documented code.
-Participating in team meetings and contributing ideas to improve our web presence.

Ms. Shanvi exhibited proficiency in various web development technologies, including HTML, CSS, JavaScript, and React JS. She showed a keen ability to grasp new concepts quickly and apply them effectively in her tasks.

Her ability to work independently, coupled with her collaborative spirit, made her an asset to our team. She consistently met project deadlines and maintained a high standard of quality in her work.

We appreciate her contributions to our projects and wish her all the best in her future endeavors. We are confident that she will continue to grow and succeed in her career as a web developer.

Please feel free to contact us at **terracods@gmail.com** or **+91-9999 878 544** if you require any further information.

Sincerely,

From,
AKANSHA KANAUJIA
CFO, Co-Founder

Akansha Kanaujia

SIGNATURE

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DECLARATION

I declare that this written submission represents work in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the University and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

Shanvi

Shanvi Mathuria

Roll No.: 2201010081

Date: 05-08-2025

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ACKNOWLEDGEMENT

I would like to express my sincere gratitude to **Ms. Akansha**, Project Manager at TerraCods Technologies, for her constant guidance and support throughout my internship. Special thanks to **Mr. Mayank Kanaujia**, Patent Associate Trainee, who provided invaluable insights and assistance. I also appreciate the opportunity given by *TerraCods Technology* to work on website development tasks. This experience has been instrumental in broadening my knowledge and preparing me for future professional endeavors.

Shanvi.

Student Name:- Shanvi Mathuria

Roll Number:- 2201010081

Date: 05-08-2025

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ABSTRACT

This report covers my internship experience at *TerraCods Technology*, where I worked as a Frontend Developer. During my time there, I was involved in building a dynamic and visually appealing web portfolio for a media agency. The goal of the project was to create an engaging online presence that could effectively showcase the agency's work and services.

My role focused on developing responsive user interfaces, ensuring smooth navigation, and bringing the design to life using technologies like HTML, CSS, and JavaScript. I collaborated with the team to transform design concepts into interactive web components and optimized the website for a smooth user experience on all devices.

This internship gave me practical exposure to real-world web development, improved my problem-solving skills, and helped me understand how design and functionality come together in professional projects.

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1. INTRODUCTION

This report presents my internship experience at *TerraCods Technology*, where I worked as a Frontend Developer. The internship was an integral part of my academic curriculum and provided a valuable opportunity to work on a live industry project. I was part of a team responsible for developing a dynamic web portfolio for a media agency, where my main role involved building responsive and visually appealing user interfaces.

The purpose of this report is to reflect on the work I undertook during the internship, the technologies and tools I used, and the skills I gained throughout the experience. It also aims to document the practical challenges I encountered and how I addressed them while working on a real-time web development project. The report serves as a record of my technical growth and professional development during the internship period.

This internship was designed to help me apply theoretical knowledge in a professional setting and develop real-world problem-solving skills. By contributing to an actual client project, I gained insights into the workflow of a development team, improved my ability to write clean and efficient code, and understood the importance of creating user-friendly, cross-device compatible web applications. The experience has strengthened my foundation in frontend development and prepared me for future roles in the tech industry.

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2. ORGANIZATION OVERVIEW

TerraCods Technologies is a New Delhi–based technology solutions and consulting company specializing in driving innovation and digital transformation for small and medium enterprises. The company offers end-to-end services such as high-performance website development, results-driven performance marketing, and specialized technical patent writing, aimed at supporting business growth and safeguarding intellectual property. With a strong focus on innovation management, TerraCods collaborates with startups and SMEs to convert ideas into scalable, sustainable, and impactful solutions. Its expertise spans crafting robust digital identities, simplifying patent documentation processes, and delivering cost-effective, results-oriented services that enhance competitiveness. Operating across diverse markets, TerraCods tailors its solutions to meet client needs, ensuring long-term growth and market relevance. The company also engages in knowledge-sharing activities like workshops, bootcamps, and webinars to promote skill development. In collaboration with educational institutions, TerraCods extends opportunities for internships, research projects, and industry exposure, bridging the gap between academic learning and real-world applications. Through its innovative approach and commitment to quality, TerraCods continues to position itself as a valuable partner for businesses and budding professionals seeking technology-driven growth and intellectual property support.

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3. INTERNSHIP DESCRIPTION

Role and Responsibilities

During my internship at *TerraCods Technology*, I worked as a Frontend Developer. My main role was to contribute to the design and development of a web-based portfolio for a media agency. I was responsible for bringing the visual designs to life by writing clean, responsive, and interactive frontend code. I worked closely with the design and development teams to ensure that the user interface was not only visually appealing but also functional and easy to use across different devices and screen sizes.

Projects and Tasks Undertaken

One of the key projects I was involved in was building a dynamic web portfolio that showcased the media agency's work, services, and creative content. My tasks included converting design mockups into working web pages, implementing interactive elements like sliders and galleries, ensuring smooth navigation, and testing the site's performance on various devices. I also contributed to optimizing the website's layout for better speed and usability, making sure the final product was both attractive and user-friendly.

Skills and Knowledge Acquired

Throughout the internship, I gained hands-on experience with web technologies like HTML, CSS, and JavaScript, and I also got familiar with tools and practices used in the real development process such as version control (Git), responsive design techniques, and debugging. I learned how to work in a team, manage time effectively, and communicate ideas clearly with both developers and designers. Overall, this internship helped me grow both technically and professionally, giving me a strong foundation for my future career in web development.

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4. LEARNING OUTCOMES

Professional Skills Developed

During my internship at *TerraCods Technology*, I developed a range of professional and technical skills. I became more confident in using HTML, CSS, and JavaScript to build responsive web interfaces. Working on real-world tasks helped me get better at writing clean, organized code and paying attention to the details that enhance a website's usability. On the soft skills side, I improved in time management, team collaboration, and communicating ideas clearly within a team environment, especially when discussing designs and functionality.

Challenges Faced and Solutions Implemented

One of the major challenges I faced was translating complex design mockups into code while keeping the website responsive on all devices. Initially, some layouts would break on smaller screens, which required me to dive deeper into responsive design techniques like media queries and flexbox. Another challenge was understanding to the coding standards followed by the team. With the help of code reviews and feedback, I gradually aligned my work with the team's expectations. I also faced issues with version control in the beginning, but consistent practice with Git helped me get comfortable managing my code and collaborating more efficiently.

Insights Gained about the Industry/Field

This internship gave me a clearer understanding of how web development works in a professional setting. I realized that beyond just writing code, successful projects require planning, design-thinking, communication, and testing. I also saw how important teamwork is in the development process—developers, designers, and project managers all play key roles. Additionally, I gained insight into client expectations and how developers must balance creativity with functionality and deadlines. It made me more aware of industry best practices and the importance of continuous learning in the fast-evolving tech world.

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5. PROJECT DETAILS

Overview of Major Projects

The main project I worked on during my internship at *TerraCods Technology* was the development of a dynamic and responsive web portfolio for a media agency. The website was intended to showcase the agency's work, highlight their services, and serve as a professional platform to attract potential clients. It included various sections such as a homepage, about us, portfolio gallery, services, testimonials, and a contact form.

Goals and Objectives

The key goal of the project was to create a modern, visually appealing, and easy-to-navigate website that effectively represented the media agency's creative identity. The objective was not only to display content but to ensure the site was responsive across all devices, user-friendly, and optimized for performance. My specific objective as a frontend developer was to convert UI/UX designs into clean, functional code while maintaining consistency with the brand's look and feel.

Methodologies and Processes

The development process followed an agile-inspired workflow, with regular discussions, feedback loops, and task updates. I started by understanding the design mockups and breaking them down into components. Using HTML, CSS, and JavaScript, I built the website section by section, focusing on responsiveness and interactivity. I also used version control through Git to track progress and collaborate with the rest of the team. Regular testing on different browsers and screen sizes was performed to ensure everything functioned smoothly.

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Results and Contributions

By the end of the internship, the website had a fully functional frontend interface that matched the original design while being responsive and user-friendly. I contributed significantly to building key sections of the site, such as the homepage, portfolio grid, and contact form. I also worked on improving the performance and layout across mobile and tablet devices. My contributions helped the team move closer to delivering a polished and professional product to the client.

Reflection on Project Outcomes

Working on this project helped me gain real experience in how a web development project moves from concept to completion. I learned how to break down complex requirements, manage my time across tasks, and collaborate within a professional team setting. It also gave me confidence in my ability to turn creative ideas into working web solutions. Overall, it was a rewarding experience that allowed me to grow both technically and personally.

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6. ANALYSIS AND REFLECTION

Evaluation of Internship Experience

My internship at TerraCods Technology was a highly enriching experience that gave me practical exposure to how web development works in a professional environment. I had the chance to work on a real-world project, collaborate with experienced developers, and understand the workflow of a tech company. The supportive team environment and regular feedback helped me improve steadily throughout the internship. Overall, the experience not only strengthened my technical foundation but also boosted my confidence in working independently and meeting deadlines.

Comparison with Initial Objectives

At the beginning of the internship, my goal was to gain hands-on experience in frontend development, learn how to work within a team, and understand the structure of real-world projects. Looking back, I can confidently say that these objectives were met—and even exceeded in some areas. I was not only able to apply what I had learned in college but also picked up new skills like responsive design techniques, better code organization, and practical use of Git. The experience aligned well with what I hoped to achieve and gave me a clearer vision of my future career path.

Strengths and Areas for Improvement

One of my strengths during the internship was my ability to quickly adapt to new tasks and learn through feedback. I was proactive in asking questions and resolving issues as they came up. I also managed my time effectively and kept up with deadlines. However, I realized that I still need to improve my attention to detail—especially when it comes to aligning design elements precisely or optimizing code for better performance. I also want to work more on deepening my understanding of JavaScript frameworks and advanced CSS techniques in future projects.

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Suggestions for Future Interns

For future interns, I would suggest approaching the internship with an open mind and a willingness to learn. Don't hesitate to ask questions, seek feedback, and take initiative—you'll learn much faster that way. Also, make the most of the opportunity by exploring tools and technologies beyond your immediate tasks. Being organized, staying curious, and communicating clearly with your team can make a big difference in both your learning experience and your contributions.

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7. CONCLUSION

My internship at *TerraCods Technology* was a valuable learning experience that allowed me to grow both technically and professionally. I gained hands-on knowledge in frontend web development, improved my skills in HTML, CSS, and JavaScript, and learned how to work effectively as part of a team. The opportunity to contribute to a real project for a media agency helped me better understand how design, development, and user experience come together in building professional websites.

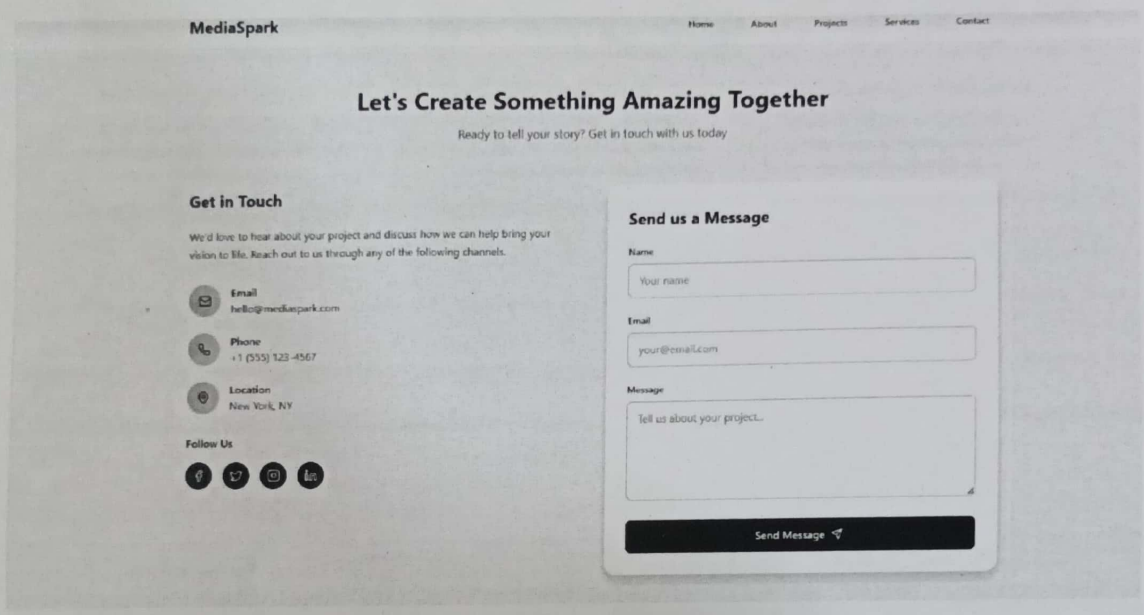
This experience has had a positive impact on my career goals. It gave me clarity on my interest in frontend development and boosted my confidence in pursuing a career in the web development field. Working in a real-world environment helped me identify my strengths and the areas where I still need improvement, which will guide my learning in the future.

Overall, the internship was a meaningful step in my journey as a developer. It not only helped me apply what I've learned in college but also exposed me to new tools, workflows, and ways of thinking. I am grateful for the experience and excited to continue building on the foundation this internship has given me.

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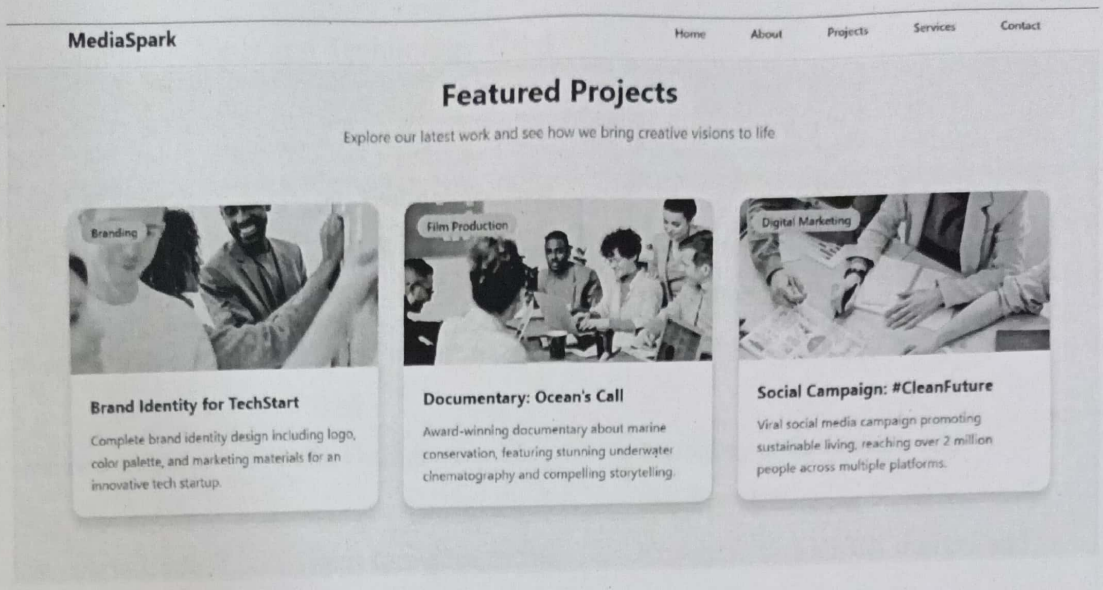
APPENDICES

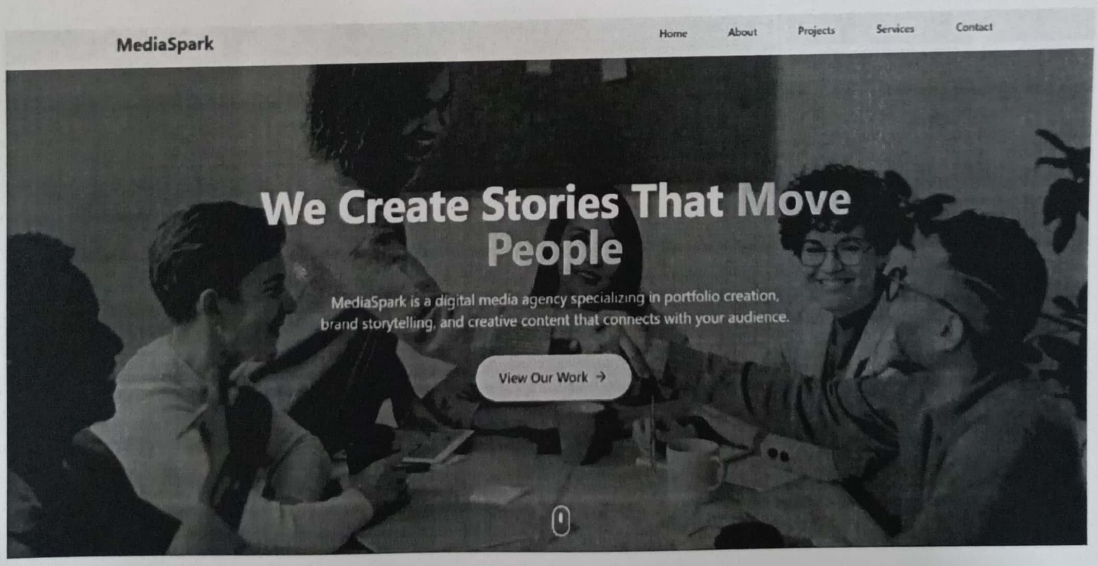
Appendix 1 – Screenshots of the Web Portfolio





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Appendix 2 - Tools and Technology Used

Category	Technology/Tool	Purpose
Languages	HTML5, CSS3, JavaScript	Structure, styling, and interactivity of the website
Code Editor	Visual Studio Code (VS Code)	Writing and editing code
Version Control	Git, GitHub	Managing code versions and collaboration
Design to Code	Figma (provided by the design team)	Understanding UI/UX designs and converting them to code
Browser Developer Tools	Chrome DevTools	Testing and debugging website performance
Responsive Design	Media Queries, Flexbox, Grid Layout	Making the site mobile/tablet friendly
Deployment Preview	Live Server Extension (VS Code)	Previewing changes in real-time locally
Communication Tools	Slack, Email	Team coordination and project discussions

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