##### VERIZON **INTERNSHIP**

**DSN4096-CAPSTONE PROJECT PHASE-II**

###### ***Submitted by***

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**(20BCE10395)**

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF TECHNOLOGY**

*in*

# COMPUTER SCIENCE AND ENGINEERING

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**SCHOOL OF COMPUTING SCIENCE AND ENGINEERING**

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##### MAY 2024

**VIT BHOPAL UNIVERSITY, KOTHRIKALAN, SEHORE**

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**BONAFIDE CERTIFICATE**

Certified that this project report titled **“VERIZON INTERNSHIP”** is the bonafide work of “**ISHITA VERMA (20BCE10395)”** who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported at this time does not form part of any other project/research work based on which a degree or award was conferred on an earlier occasion on this or any other candidate.

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The Internship Examination is held on May 2,2024.

**ACKNOWLEDGEMENT**

First and foremost I would like to thank the Lord Almighty for His presence and immense blessings throughout the project work.

I would like to express my sincere gratitude to Verizon for offering me the opportunity to work as an SDE intern.

I would like to thank my supervisor Mr. Venkata Avinash Sainni, for continually guiding and actively participating in my project, giving valuable suggestions to complete the project work.

I wish to express my heartfelt gratitude to Dr. J. Manikandan, Head of the Department, School of Computing Science and Engineering for much of his valuable support and encouragement in carrying out this work.

I would like to thank all the technical and teaching staff of the School of Computing Science and Engineering, who extended directly or indirectly all support.

Last, but not least, I am deeply indebted to my parents who have been the greatest support while I worked day and night for the project to make it a success.

**LIST OF ABBREVIATIONS**

1. SDE Software Development Engineer
2. VZ Verizon
3. CSS Cascading Style Sheet
4. DB Database
5. UI User Interface
6. UX User Experience
7. CRUD Create, Read, Update, Delete
8. CI/CD Continuous Integration/Continuous Deployment
9. API Application Programming Interface
10. JS JavaScript
11. REST Representational State Transfer
12. JWT JSON Web Token
13. SQL Structured Query Language
14. JSON JavaScript Object Notation

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**ABSTRACT**

Embarking on an enriching journey as a Software Development Engineering (SDE) intern at Verizon (VZ), I have had the privilege of immersing myself in a stimulating environment of learning and professional development. The internship commenced with a structured curriculum encompassing foundational and technical training sessions, meticulously designed to equip interns with the requisite knowledge and skills to excel in their roles.

Following the initial training phase, interns were grouped into teams and assigned diverse projects aligned with Verizon's technological ecosystem. These projects provided a hands-on opportunity to apply theoretical concepts to real-world scenarios, fostering collaboration, innovation, and problem-solving within a supportive team environment.

As an SDE intern, I have actively engaged in project development, leveraging my technical acumen to contribute meaningfully to the team's objectives. Through continuous iteration and feedback cycles, I have honed my coding abilities, expanded my proficiency in various technology stacks, and cultivated a deeper understanding of software development best practices.

Moreover, the internship experience extends beyond technical aspects, encompassing invaluable opportunities for personal and professional growth. Engaging in cross-functional collaboration, participating in mentorship programs, and attending networking events have facilitated the development of essential soft skills such as communication, teamwork, and adaptability.

As the internship progresses, the transition into functional training further enriches the learning experience, providing insights into Verizon's operational framework and strategic objectives. This comprehensive approach to training underscores Verizon's commitment to nurturing talent and fostering a culture of continuous learning and development.

In this report, I reflect on the myriad experiences, challenges, and triumphs encountered during my internship at Verizon. Through a structured narrative, I delve into the projects undertaken, technical competencies acquired, and the broader lessons gleaned from this immersive experience. As I continue to immerse myself in the vibrant ecosystem of Verizon, I am grateful for the opportunities bestowed upon me and eagerly anticipate the contributions I can make to the organization and beyond.

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**CHAPTER-1:**

**PROJECT DESCRIPTION AND OUTLINE**

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1.2 Motivation for the work

1.3 Introduction to the project including techniques

1.5 Problem Statement

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**CHAPTER-4:**

**DESIGN METHODOLOGY AND ITS NOVELTY**

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4.3 Software Architectural designs

4.4 Subsystem services

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**CHAPTER-5:**

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**CHAPTER-7:**

**CONCLUSIONS AND RECOMMENDATION**

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7.2 Limitation/Constraints of the System

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