



An ACL Digital Company

INTERNSHIP REPORT

Jason Joaquim Dias
2013

REPORT OF INTERNSHIP DONE AT AFour Technologies Pvt. Ltd.

SUBMITTED BY

JASON DIAS

2013

UNDER THE GUIDANCE OF

Abhijit Kulkarni

Date: 26 May 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Jason Joaquim Dias**, student of Master of Computer Applications (MCA) of Goa University, Goa, is currently undergoing his final semester project (Semester VI) at our organization, **AFour Technologies Pvt. Ltd.**, since March 23 and will complete by August 23.

During his tenure so far, he met the expectations of his team lead/mentor/guide and was regular and sincere.

This certificate is being issued on his request to be submitted with the project report at Goa University.

The final internship completion certificate will be provided on completing his internship.

For AFour Technologies Pvt. Ltd.

CHADHA
NEHA
RAVISH

Neha Chaddha

Senior HR - Manager

Digitally signed by Chadha Ravish, DN: cn=Chadha Ravish, o=A Four Technologies Pvt. Ltd., email=chadha.ravish@afourtech.com, c=IN, serial=123456789, version=1, reason: I am the author of this document.

AFour Technologies Private Limited

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GST NO-27AAGCA5712Q1ZA

GOA UNIVERSITY



GOA BUSINESS SCHOOL

CERTIFICATE OF EVALUATION

This is to certify that Mr. Jason Joaquim Dias has been evaluated for the project work titled **“Report of Internship done at Afour Technologies Pvt. Ltd.”**, in partial fulfillment of the award of the degree in Master of Computer Application.

Examiner 1

Examiner 2

Place: Goa University
Date: 14/06/2023

Dean, Goa Business School

Acknowledgement

I would like to take a moment to express my heartfelt gratitude for the invaluable learning and professional growth I experienced during my internship at Afour. Having the opportunity to work alongside such incredible individuals has made this internship truly fulfilling. I cannot let this opportunity pass without expressing my sincere appreciation to all those who contributed to its success.

My sincerest gratitude to Mr. Abhijit Kulkarni for being my mentor and giving me necessary advice and guidance. I choose this moment to acknowledge his contribution gratefully.

I thank all the faculty and staff at the MCA, Goa University for their constant encouragement and support during the entire course work.

I consider this opportunity to be a significant milestone in my career development. I am committed to utilizing the skills and knowledge I have acquired to the best of my abilities, and I will continue to work towards their enhancement.

Jason Dias



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Jason Dias

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Introduction

This report is a short description of my full-time internship at Afour.

I joined as an Intern at Afour Technologies on 01st March 2023 and have been here since then. This report contains necessary information about the organization, the projects I worked on and the other tasks I completed in this internship period.

In the chapters that will follow, I will talk about the company, the work here, the culture, etc. Then, I shall elaborate on the projects I worked on, a brief information about the projects, the modules I built and the tasks I completed in those modules.

This report highlights my learning experience and my contributions to the organization as an intern. This will describe the knowledge that I gained by successfully completing the tasks that were assigned to me.

I'll also discuss the tools and technologies that were used, as well as the timeframe for my internship.

Finally, I'll talk about my experience and how it has helped me grow both personally and professionally.

Company profile



AFour Technologies (a.k.a. AFour) focuses on Software Product Engineering Services comprising of UI/UX Design, Architecture Design and Consulting, Software Development, DevOps, QA (Test Strategy and Implementation, Test Automation, Performance, Security) and Monitoring. With an excellent track record of over 10 years and a focus on software product engineering.

AFour is ideation and technology house. Product companies associate with AFour for its product conceptualisation and technology skills in a wide range of technologies like Java, Python, .NET, Javascript (MEAN), LAMP (Perl and PHP), Angular, React, C++.

The company is a hub of every cutting-edge technology in software product engineering services — Hyper-convergence, SDN, Virtualisation, Next Generation Data Center Technologies, Networking, Enterprise Mobility.

Tools and Technologies Used



HTML

The HyperText Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser. It is often assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.



CSS

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML or XML (including XML dialects such as SVG, MathML or XHTML). CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.



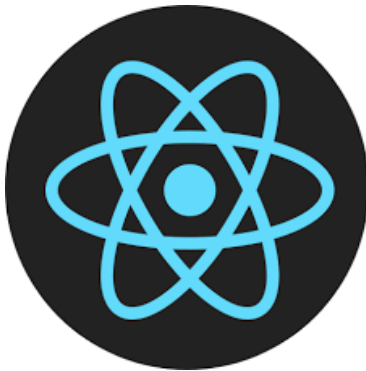
Bootstrap

Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains HTML, CSS and (optionally) JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.



JavaScript

JavaScript, often abbreviated as JS, is a programming language that is one of the core technologies of the World Wide Web, alongside HTML and CSS. As of 2022, 98% of websites use JavaScript on the client side for webpage behavior, often incorporating third-party libraries. All major web browsers have a dedicated JavaScript engine to execute the code on users' devices.



React

React is a free and open-source front-end JavaScript library for building user interfaces based on components. It is maintained by Meta (formerly Facebook) and a community of individual developers and companies.

React can be used to develop single-page, mobile, or server-rendered applications with frameworks like Next.js.



Express

Express.js, or simply Express, is a back end web application framework for building RESTful APIs with Node.js, released as free and open-source software under the MIT License. It is designed for building web applications and APIs. It has been called the de facto standard server framework for Node.js.



MongoDB

MongoDB is a source-available cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with optional schemas.



Node.js

Node.js is a cross-platform, open-source server environment that can run on Windows, Linux, Unix, macOS, and more. Node.js is a back-end JavaScript runtime environment, runs on the V8 JavaScript Engine, and executes JavaScript code outside a web browser.



Git

Git is a distributed version control system that tracks changes in any set of computer files, usually used for coordinating work among programmers collaboratively developing source code during software development. Its goals include speed, data integrity, and support for distributed, non-linear workflows.



VS Code

Visual Studio Code, also commonly referred to as VS Code, is a source-code editor made by Microsoft with the Electron Framework, for Windows, Linux and macOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git.



Postman

Postman is an API Platform for developers to design, build, test and iterate their APIs. As of February 2023, Postman reports having more than 25 million registered users and 75,000 open APIs, which it says constitutes the world's largest public API hub.

Project timeline/Project diary

March

- ❖ Week 1
 - Onboarding process
- ❖ Week 2
 - Introduction to concept of git and git commands
 - Clean Code practices
 - SOLID Principles
 - DRY principle
 - YAGNI Principle
 - TDD
 - Exercises
- ❖ Week 3
 - Introduction to Linus and Basic commands
 - Linux Architecture
 - Linux Booting process step by step
 - Linux FileSystem and directories
 - Process Management
 - Create / Delete User ID
- ❖ Week 4
 - OOPs Concepts
 - Encapsulation
 - Inheritance
 - Abstraction
 - Polymorphism
 - Association
 - Aggregation
 - Composition
- ❖ Week 5
 - RDBMS
 - Normalization
 - Data manipulation
 - Data retrieval
 - ACID properties
 - NO SQL Db

April

- ❖ Week 6
 - JavaScript Fundamentals
 - Variable declaration
 - Data types
 - Loops
 - Control Flows Operators
 - Functions
- ❖ Week 7
 - Closures
 - Classes
 - Timer function
 - Module Functions
 - Code Formatters
 - Linter
 - Promises
- ❖ Week 8
 - React
- ❖ Week 9
 - React

May

- ❖ Week 10
 - Expense Management System (Assignment 1)
- ❖ Week 11
 - Assignment 1
- ❖ Week 12
 - FaceBook Clone (Assignment 2)
- ❖ Week 13
 - Assignment 2

June

- ❖ Week 14
 - Assignment 2
- ❖ Week 15
 - Assignment 2

Experiences of Internship

During my internship at Afour Company, I had the opportunity to work and learn for three months. As a part of the internship program, I was assigned to the software development team, where I focused on building my skills in JavaScript and React.

From the very first day, I was warmly welcomed by the team and given an overview of the company. The company had a supportive and collaborative work culture, which made it easier for me to adapt and grow as an intern.

Throughout my internship, I was exposed to various aspects of front-end and back-end development. I had the chance to work on projects that allowed me to apply my knowledge of JavaScript and React in practical scenarios. Under the guidance of an experienced mentor, I was able to deepen my understanding of these technologies and enhance my problem-solving skills.

Overall, my internship at Afour Company was a valuable learning experience. The supportive environment, challenging projects helped me develop my skills and gain confidence as a developer. I am grateful for the opportunity to be a part of such a dynamic and innovative company, and I believe that the skills and knowledge I acquired during my internship will serve as a strong foundation for my future career in software development.