

INTERNSHIP REPORT

SHAZIB KHATTAL

1919

ZapCom Group Inc

Goa University

zapcom.

3rd June 2022

INTERNSHIP LETTER

This is to certify that Mr. Shazib Khattal, student of MCA, 6th Semester from Goa University is working as an Intern with our Organization at Bangalore location since 10-Jan-2022, his six months internship period will get over on 30-June-2022.

During the period of his Internship program with us, he is found punctual, hardworking and inquisitive.

We wish him a successful career ahead.

Yours Sincerely,

For ZapCom Solutions Pvt Ltd.

Kever

SRINIVAS KOTHAKOTA COO

INDIA ZapCom Solutions Pvt Ltd Rh Floor, Gamma Tower, Sigma Soft Tech Park Whitefield, Bangalore - 560066 Prc +91-80-67232300

www.zapce.com CIN: U72200KA2054PTC075530 USA ZapCom Group, Inc. 7033 Village Pariway, Ste.211 Dublin, CA 94568 Ph: +1-925-350-7009

REPORT OF INTERNSHIP DONE AT ZAPCOM GOUP INC

SUBMITTED BY

SHAZIB KHATTAL

1919

UNDER THE GUIDENCE OF

Mr. Deepak Puranam

(Head of Delivery)

Mr. Rahul Mishra

(Tech Lead)

Mr. Eswaran Pragasam

(Lead Software Engineer)

Mr. Jeff Torcato

Ms. Alisha Lotlekar

(Associate Software Engineer)

(Software Engineer)

GOA UNIVERSITY



GOA BUSINESS SCHOOL

CERTIFICATE OF EVALUATION

This is to certify that Mr. Shazib Khattal has been evaluated for the project work titled "Report of internship at ZapCom Group Inc" undertaken at ZapCom Group Inc ,Bangalore in partial fulfilment for the award of degree in Master of Computer Application

Examiner 1

Place Goa University

Date: 10th July 2022

Examiner 2

Dean Goa Business School

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Acknowledgement

The internship opportunity I had with ZapCom Pvt Ltd was a great chance for learning and professional development. Therefore, I consider myself as a very lucky individual as I was provided with an opportunity to be a part of it. I am also grateful for having a chance to meet so many wonderful people and professionals who led me though this internship period.

I would like to thank Mr. Kishore Pallamereddy for giving me opportunity to intern at ZapCom.

My sincerest gratitude to Mr. Rahul Mishra (Tech Lead, ZapCom) and Mr. Eswaran Pragasam (Lead Software Engineer, ZapCom) for being my mentor and giving me the necessary guidance and support.

I also would like all the people that worked along with me Jeff Torcato, Harsahd Chari with their patience and openness they created an enjoyable working environment.

My sincere thanks also goes to Ms. Alisha Lotlekar for providing guidance in my work.

It is a great and unique pleasure to me that I have got a chance to thank a large number of individuals for their help and encouragement to make the internship successful.

I thank Goa University, MCA department for giving me opportunity to carry out this internship Special thanks to Mr. Ramdas Karmali (Prof. and TPO, MCA, Goa Business School, Goa University), Mr. Jarret Stevan Anthony Fernandes (Assistant Prof, MCA, Goa Business School, Goa University) and all the faculty of MCA, Goa University for their constant encouragement and support during the project work.

I would like to thank my family and friends for allowing me to go so far away from them and for those friends in Bangalore who made me feel comfortable in a new location. The love, support and encouragement they provided me during this internship cannot be forgotten.

I perceive as this opportunity as a big milestone in my career development. I will strive to use gained skills and knowledge in the best possible way, and I will continue to work on their improvement, in order to attain desired career objectives. Hope to continue cooperation with all of you in the future.

Introduction

This report is to delineate my full-time internship at ZapCom Group Inc, Bangalore.

I had the privilege to join ZapCom on 10th Jan 2022 and have been here since then. This report contains righteous details about the organization, proof of concepts projects done to demonstrate my learning and understanding towards the technologies, contributions done towards the organization's project and other training that I have attended during the internship period.

In the following pages I will thoroughly describe the company, the work, the environment, etc and follow up by my contribution to the organization's project and the proof-of-concept project done.

This will describe the knowledge that I gained by successfully completing the tasks that were assigned to me.

This report will also highlight the tools and technologies that were used during the internship period.

I would also be describing the non-technical skills I got learn and how did it help me in my internship timeline.

I shall conclude by sharing my experience and how it helped me to grow, both on the personal and professional front.

Company Profile

Zapcom is a boutique engineering solutions firm with a product mindset that has the ability to inspire, engage and transform. It's a US based Product and technology Start-up focusing on Travel, Hospitability and Retail domains.

ZapCom is a Venture floated by a couple of KEY global leaders who had led MNC's globally and worked in the US for over 22 years.

ZapCom takes a data-centric approach to creating products, platforms, and teams that drive delightful experiences and measurable business value.

The KEY areas of focus for ZapCom are: Standing-up or realizing start-up ideas in technology space by investing in Innovative ideas - mainly from Silicon Valley and Bangalore.End-to-End Solutions with cutting edge technologies and custom App development focused on onshore-offshore delivery model.

ZapCom i	in numbers.	
30*	100*	
Happy Customers	Projects	
With global presence and 95% client retention. Delivered projects of all types and sizes since inception.		
3	00*	
Glob;	al Builders	
Skilled with product mi	indset, innovation and agility.	

With the experience acquired over delivering 100s of projects successfully and has designed the ways of working that is right for client's outcome.

ZapCom is a self-sufficient and well-funded venture by our own founders and is a debt free organization.

ZapCom is growing Fast. It hires exceptional talent and expose them to diverse, high impact problems. Join us at one of our global locations. Let us build technology and disrupt client business. At Zapcom, the concept is to blur the lines that define the 'work' in workplace. A happiness first approach to complement our cutting edge technology is part of our core philosophy. ZapCom provides best in class technology solutions at the RIGHT COST at a Global Scale. With extensive experience in understanding the digital economy, ZapCom is strategically placed to help clients deliver better products, services and business processes through

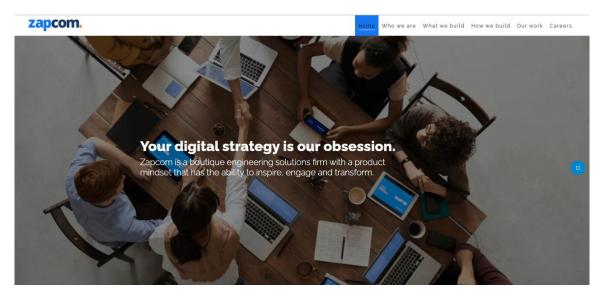
Zapcom has its branches spread throughout the world: Dallas-Texas,Heredia-Costarica,Bangalore-India,Dublin-California,Hyderabad-India



ZapCom provides best in class technology solutions at the RIGHT COST at a Global Scale. With extensive experience in understanding the digital economy, ZapCom is strategically placed to help clients deliver better products, services and business processes through

LIVE PROJECT

1] Project – ZapCom official website



Problem Statement:

To create a new official website for ZapCom so that they can replace with the existing one. Implement extra features to the website.

My Contributions:

I was assigned to develop ZapCom's official website where in my responsibilities were as follows:

- To rework on the UI/UX design
- Implement new features and modify the existing features for betterment.
- Fix bugs in the website.
- Convert website into a responsive one.
- Add new pages to the website.
- Publish the content for the website.

My detailed contribution is as follows:

- Creating the entire website responsive
- Home Page
 - a. Add cards on the home page

Ideas and Tech Bytes



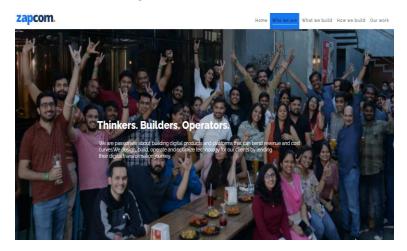
b. Changes in footer UI and providing links to it

Calling for	Who we are	What we build	How we build
Builders	Leadership Team	Our approach	Our Work
JOIN US	Life at ZapCom	Customer testimonial	ZapCom Labs ®

c. Customer section UI and content changes.

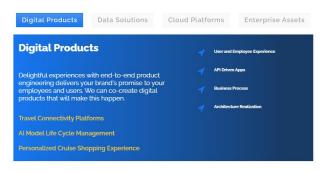


- Who We Are Page
 - a. Added Hero Image

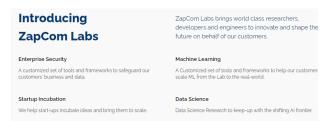


• What We Build

a. Organized the content by creating new tabs and categorized it accordingly.



b. Added new section for static data



- How We Build Page
 - a. Implementing timeline library.



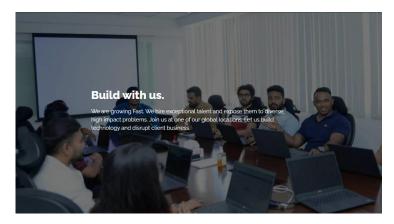
b. Reimplementing the slider

Our customers love it..

"I want to personally thank you for the amazing job you all did in creating the OTH Bio tool. In the 17 years I have been here I don't recall a project that came out so accurate to the requested functionality. You are truly amazing, and we are blessed to have you working on projects for us."
 One of the largest Home Services brand company.

• Career Page

a. Added Hero Image



b. UI Redesign

WHY JUK! Growth Impact . Culture <

c. Changing the structure auto slider

- Created Forms
 - a. Job Application Form.

Nama '	Phone Number	
Rame E.g. John Doe	E.g. +1 3004005000	
L.g. John Doe	L.g. +1 00000000	
Email Address		
E.g. john@doe.com		
What you can bring to Zapcom? * Enter your message		
What you can bring to Zapcom ⁹ * Enter your massage		0 / 18
Enter your message		o / 18
Enter your message		o ∕ 16
Enter your message Checkbox' Thank you for your interest in Zapcom Group		the storage and processing of your
Enter your message Checkbox' Thank you for your interest in Zapcom Group		the storage and processing of your
Enter your message		the storage and processing of your

b. Contact Form to query zapcom officials.

• Created Posts

a. Created jobs post for US and Indian Branch

Current Openings

React Native Developer				
	Java Full Stack Developer	Devops Engineer		
Solution Architect	Salesforce developer	Information Security Officer		
SDET Engineer	Data Analyst	Dot Net Developer		
Microservices Lead Appian Developer - HR Module		Data Integration Engineer		
NetSuite Developer Scrum Master				
USA				
Scrum Master	SDET Engineer	Platform Architect		
Data Architect Solution Architect				
	SDET Engineer Appian Developer Scrum Master	SDET Engineer Data Analyst Appian Developer Scrum Master USA Scrum Master SDET Engineer		

b. Content post defining ZapCom work, domains, approach, etc.



How easy is it for android developers to build a microservice and why don't we do it ?

One of our leaders recently delivered a talk at a developer conference in Lisbon, on how they enabled a team of android developers in building Microservices – using Micronaut framework. They also shared their experiences in successfully delivering the product end to end, leveraging their pool of android engineers.

Tools And Technologies used

- WordPress
- PHP
- JavaScript
- AWS
- Bluehost
- Elementor
- Forminator
- WP Bakery
- Essential Grid
- Jetpack
- Yoast SEO
- Cool Timeline

2] Project – VivaVoyage

î		DYAGE	0	If outside US 101-954-239-2242 866-408-8482
		J IN COLL	Abou	It Customer Service Join Free/Login
	OCEAN CRUISES			
	Viva VIP Exclusive Off Where do you want to go?:	When do you want to go?: Image: All Sailing Dates	Which Cruise Line?:	Viva Voyage is here to help Image: Second
	Advanced Search »	Find your dream cruise right now >	SEARCH CRUISES	Chat online now
			ATTONAL	Our passion is to bring you the best in cruising. Since 2006 Viva Voyage has been giving incruidible actions on

Problem Statement:

Implement new payment gateway by replacing an existing one. Change the work flow of microservices to adapt new payment gateway as required. Add some extra features to website. Setup pipelines for the entire project.

Overview:

Viva Voyage is here to help Talk to a consultant Request a callback Chat online now Our passion is to bring you the best in cruising. Since 2006 Viva Voyage has been giving incredible prices on cruises & travel packages worldwide.

My Contributions:

- Implement payment generation link.
- Change the workflow of microservices.
- Research on the new payment gateway to be implemented.
- Maintaining DevOps activity of the project.

My Detailed Contribution:

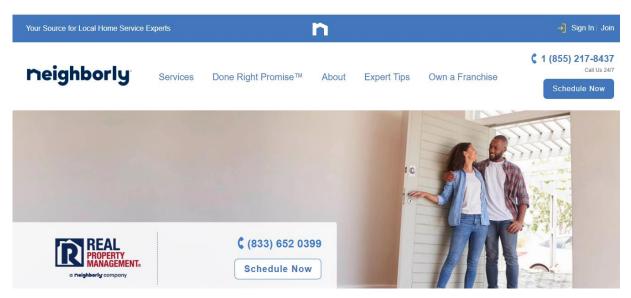
- Research the flow of payment link generation provided by third party by testing it in Postman.
- Implement the payment generation in existing project.
- Create a pipeline for both front-end and back-end to host it on AWS EC2.
- Create a new database and transfer data from existing one to a newly created database.

VIVA VOYAGE	If outside UK (0044) 203 117 0090 0800 862 0137
	About Customer Service My Trips Hi, Nehal Parsekar 🕶
	Booking Id * Customer Email Id * Currency Type * CBP Pay Nov Pay By Link
offer price. This guarantee only applies to new reservations and does not apply to gr Many of the flights and flight-inclusive holidays on this website are financially protec services listed on this website. Please ask us to confirm what protection may apply t	inancial protection to the consumer, ensuring total consumer confidence.

Tools and technologies

- Node.js
- Express.js
- PHP
- WordPress
- Aws
- MySQL
- JWT
- Winston
- Redis
- Axios

3] Project – Real Property Management



Overview: Real Property Management is the largest single family property management organization in North America, with more than 300 offices in 46 states and Canada. Real Property Management specializes in franchising a system to manage single-family homes, townhomes, condos, multiplexes and small apartment buildings without onsite management.

Problem Statement:

Implementing comparison table and comparison graph, then exporting that data as a pdf file.

My Contribution:

Implemented comparison table where in one property will be selected by user at first and later customer can add two more properties for comparison. The comparison details will be shown in table view and also graphical view. The comparison data should also be downloadable in pdf format.

My Detailed Contribution:

- Search properties feature was added.
- Created a select option to choose properties to compare.
- Created graph to show comparison data in a graphical view.
- Implemented TypeScript in existing React.js Code.

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urchase Price	\$298520	S211859	\$203967			Expected Rent	\$15,138 \$1,261.5/mo	\$15,161 \$1,263.417/mo	\$15,206 \$1,267.167/mo	\$15,252 \$1,271/mo
iitial ivestment	\$13517001	\$9592986	\$9235636			Total Expenses	\$7,115	\$7,126	\$7,148	\$7,171
otal Return	\$-13437630	S-9515236	S-9158136			Property Taxes	\$3,004	\$3,009	\$3,019	\$3,029
I fittional Metrics:	-99%	-98%	-98%			R&M (Reserve)	\$455	\$455	\$457	\$458
nualized turn	0%	0%	0%			Other Expenses (leasing,	S1,494	\$1,496	\$1,501	\$1,505
p Rate	2.7%	4.7%	5%			HOA, insurance fees)	12,0004	12000		0700
oss Yield	5.6%	9.3%	9.7%			INCOME	\$8,023 \$668.583/mo	\$8,035 \$669.583/mo	\$8,058 \$671.5/mo	\$8,081 \$673.417/mo
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Proof Of Concept Project

1] Melody-Music App[Proof of Concept Project]

Problem Statement:

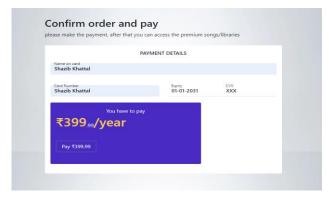
Online music management application, Design the layout and screens as you find fit with following user experience.

- The Admin should be able to create or add new music libraries/songs to the application.
- The user who has membership should be able to browse all the songs(free/paid).
- There should be two factor authentication while signing in.
- Anonymous users should only see free category songs/libraries.
- User who wants to subscribe should pay minimal fee to subscribe online with two factor authentication (create dummy payment screen).
- Apply filter for the table
- User should be able to search songs.
- Should use concept of authentication, authorisation, claims, roles.

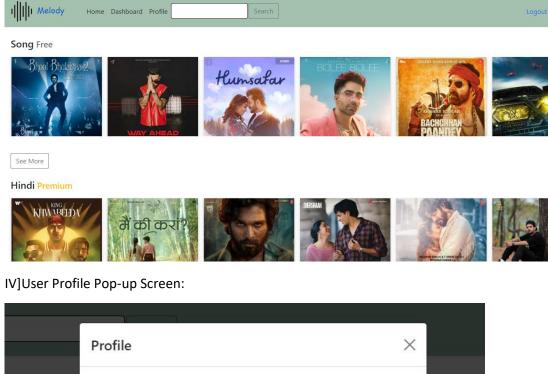
I] Login & Signup Screen

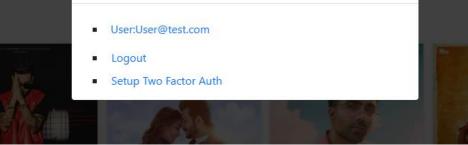
ı I Melody	I I Melody		
Log in	Register		
Email	Email		
Password	Name		
□ Remember me?	Password		
Log in	Confirm password		
Begister.as.a.new.user?	Register		

II] Payment Page: Where users subscribe to app by paying the amount



III] Home Screen: When admin logins in there will be extra feature giving access to dashboard





V] Two factor authentication: Via OTP

Please enter the code below in your autheticator App. cxnnossurhqakzdftzwami4szmfeenk	Verfiy Authenticator Code
Enter Code :	Code
Submit	Submit

VI] Song

a)Play single song

b) Plav	, the	play	vlist
×,	, , , , , , ,	yunc	piu	ynse



VII] Search Songs

The Drum	Search
	The Drum Hindi Free 2021 Duration 2.3 minutes • 0:00 / 4:36 • • :

VIII] Admin Dashboard: Here Admin can add song and plylist

╢	I Melody Home Dashboar	rd Profile		Search	h							Lo	ogout
	Free Songs 8		Prem	ium Songs 6		Fre	e Libra 6	ries	F	Premiur	n Lib 6	raries	
		Add Sor	ng						Add Library]	
	Manange Song												
2	Show 10 • entries Search:												
	Song Name A Bhool Bhulayiaa	Type Free	÷	Language Hindi	÷	Duration	÷	Year 2020	÷	Edit Edit	÷	Delete Delete	÷

IX] Search functionality for table with filter using ajax.

Manange Song								
Show 10 💙 entries					Search:	2019		
Song Name	Туре 🕴	Language 🔶	Duration \$	Year \$	Edit	¢	Delete	
Heer Ranjha	Free	Hindi	1.57 min	2019	Edit		Delete	
Raatan	Free	Hindi	4.36 min	2019	Edit		Delete	
Showing 1 to 2 of 2 entries (filtered	from 14 total entries)				I	Previous	1 Ne	ext

X] Add Song Form

Language:		
Duration		
Release Year:		
Туре		
Free		
Library:		
NO PlayList S	elected	
Image		
Choose File	No file chosen	
Audio		
Choose File	No file chosen	

XI] Add Playlist Form

Daul ist Namo			
PlayList Name:			
Туре			
Free			
Image			
	No file chosen		
Submit			

XII] Delete playlist/song

Delete Ca	tegory		
PlayListName			
Circle Sound			
Delete	Back to List		
© 2022 Melody			

XIII] Edit playlist/song

PlayList Name:	
Circle Sound	
Type:	
Paid	
Image	
Choose File	No file chosen
Submit	

Tools And Technology

- .NET 6 MVC
- MsSQL
- EntityFrameworkCore
- Serilog
- XUnit
- ASP.Net Identity
- Bootstrap
- Docker

2] Jobify App[Proof of Concept Project]

Problem Statement:

- Admin should able to add jobs and should be able to describe job location, job type, status of job.
- Dashobard to dipslay the status.
- User should able to search jobs by adding filters.
- User can change profile data.

1]	II]			
J Jobify	J Jobify	E	Dashboard	θ Shk +
Login Email Password Submit Not a member yet? Register	 ▲ Stats ▲ All Jobs ➡ Add Job ▲ Profile 	O Eeding Applications	0 D	O 😥

Search Form					
Search	Stat	us		Туре	
	all		~	all	~
Sort					
latest	~	Clear Filters			

Tools And Technologies:

- ReactJs
- NodeJs
- ExpressJs
- MongoDB
- Redux
- ChartJs

3] .NET Web API [Proof of Concept Project]

Problem Statement:

- Create a crud application using LINQ.
- Should use Entity Frameowrk
- Use concept of DTO and Auto Mapper
- Use Middleware and Exception handling
- Use Swagger API

Swagger Nymmus Karlstar	Select a definition MelodyAPI v1 🗸 🗸
MelodyAPI (10) 0.150 Intro Illocatholt 70 Birwageriy Unwageri Jon	
Song	^
GET /api/Song	~
POST /api/Song	×
GET /api/Song/{SongId}	×
PATCH /api/Song/{SongId}	~
DELETE /api/Song/{SongId}	~

Tools and Technologies

- .NET WEB API
- Entity Framework
- Swagger API
- MsSql
- Seriloger
- XUNIT

Tools And Technologies Used During Internship

.NET Core	.NET Core is the latest general purpose development platform maintained by Microsoft. It works across different platforms and has been redesigned in a way that makes .NET fast, flexible and modern.
Entity Framework	Entity Framework is an ORM and ORMs are aimed to increase the developer's productivity by reducing the redundant task of persisting the data used in the applications
ASP.NET Razor	Razor Pages is designed to make common patterns used with web browsers easy to implement when building an app. Model binding, Tag Helpers, and HTML helpers work with the properties defined in a Razor Page class.
autoxmapper	AutoMapper is a simple little library built to solve a deceptively complex problem - getting rid of code that mapped one object to another.
Microsoft SQL Server	MS SQL Server is a relational database management system (RDBMS) developed by Microsoft. This product is built for the basic function of storing retrieving data as required by other applications.
	IdentityServer supports different kinds of protocols and social authentication providers that can be configured as part of each custom installation. This is typically done in the ASP.NET Core application's Startup class in the ConfigureServicesmethod

Serilog	Serilog : is a structural logging library for Microsoft .Net and has become the preferred logging library for .Net applications. Serilog's vast ecosystem consisting of hundreds of integrations that cover Console, File, Message Queue, Seq, Elastic Search, Azure Event Hub etc
× Unit.net	xUnit.net is a free, open source, community-focused unit testing tool for the .NET Framework. Written by the original inventor of NUnit v2, xUnit.net is the latest technology for unit testing C#, F#, VB.NET and other .NET languages
Ounit	NUnit is a unit-testing framework for all .Net languages. NUnit is Open Source software and NUnit 3.0 is released under the MIT license. This framework is very easy to work with and has user friendly attributes for working.
moq	Moq is a mock object framework for .NET that greatly simplifies the creation of mock objects for unit testing.
React	ReactJS is an open-source, component-based front-end library responsible only for the view layer of the application. It is maintained by Facebook. React uses a declarative paradigm that makes it easier to reason about your application and aims to be both efficient and flexible
TypeScript	Typescript is a free and open-source content management system (CMS) written in and paired with a MySQL or MariaDB database. Features include a plugin architecture and a template system, referred to within WordPress as Themes.

Chart.js	Chart.js is an free JavaScript library for making HTML-based charts. It is one of the simplest visualization libraries for JavaScript
n ode	NodeJS is an open-source, cross-platform, back-end JavaScript runtime environment that runs on the V8 engine and executes JavaScript code outside a web browser.
Express JS	Express is a fast, assertive, essential and moderate web framework of Node.js. You can assume express as a layer built on the top of the Node.js that helps manage a server and routes. It provides a robust set of features to develop web and mobile applications
qrcode.js	QRCode.js is a JavaScript library that is available on GitHub. Using this library, you can generate QR code with JavaScript quickly.
Redux	Redux is a predictable state container for JavaScript apps. It helps you write applications that behave consistently, run in different environments (client, server, and native), and are easy to test.
docker	Docker Is an open platform for developing, shipping, and running applications. Docker enables you to separate your applications from your infrastructure so you can deliver software quickly. With Docker, you can manage your infrastructure in the same ways you manage your applications

😂 redis	Redis is an open source , in-memory data structure store, used as a database, cache and message broker. It supports data structures such as strings, hashes, lists, sets, sorted sets with range queries, bitmaps, hyper loglogs, geospatial indexes with radius queries and streams
Amazon EC2	EC2 provides scalable computing capacity in the Amazon Web Services (AWS) Cloud. Using Amazon EC2 eliminates your need to invest in hardware up front, so you can develop and deploy applications faster. You can use Amazon EC2 to launch as many or as few virtual servers as you need, configure security and networking, and manage storage.
MySQL	MySQL is a relational database management system (RDBMS) developed by Oracle that is based on structured query language (SQL).
• 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.
♦ git	Git is a software for tracking changes in any set of 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 (thousands of parallel branches running on different systems).
GitLab	Gitlab is a service that provides remote access to Git repositories. In addition to hosting your code, the services provide additional features designed to help manage the software development lifecycle. These additional features include managing the sharing of code between different people, bug tracking, wiki space and other tools for 'social coding'.
GitHub	GitHub is a provider of Internet hosting for software development and version control using Git. It offers the distributed version control and source code management (SCM) functionality of Git, plus its own features. It provides access control and several collaboration features such as bug tracking, feature requests, task management.

11	Npm is a package manager for the JavaScript programming language maintained by npm, Inc. npm is the default package manager for the JavaScript runtime environment Node.js. It consists of a command line client, also called npm, and an online database of public and paid-for private packages, called the npm registry.
💮 Swagger.	Swagger is an open-source tooling usage that can be broken up into different use cases: development, interaction with APIs, and documentation
	Postman is an API platform for building and using APIs. Postman simplifies each step of the API lifecycle and streamlines collaboration so you can create better APIs—faster. A comprehensive set of tools that help accelerate the API Lifecycle - from design, testing, documentation, and mocking to discovery.
ŸJIRA	Jira is a project management tool used for issues and bugs tracking system. It is widely used as an issue-tracking tool for all types of testing.
₩ JWT	JSON web token is JSON Object which is used to securely transfer information over the web(between two parties). It can be used for an authentication system and can also be used for information exchange. The token is mainly composed of header, payload, signature.
	Visual Studio Code is a code editor redefined and optimized for building and debugging modern web and cloud applications.

Visual Studio	Microsoft Visual Studio is an integrated development environment (IDE) from Microsoft. It is used to develop computer programs, as well as websites, web apps, web services and mobile apps.
	WPBakery Page Builder is a page builder plugin for WordPress which allows you to create stunning website content with simple drag and drop. With WPBakery Page Builder you can create and manage your WordPress content in minutes.
	Elementor is the leading website building platform for WordPress, enabling web creators to build professional, pixel-perfect websites with an intuitive visual builder.

Timeline

- Week-1:
 - 1. Formal Orientation and onboarding process
 - 2. Interaction with CEO,CCO,Global HR
 - 3. Interaction with mentor assigned to me
 - 4. Started learning C#
 - 5. OOPs Concept in detail
- Week-2
 - 1. Learned and coded SOLID principles
 - 2. Learned and code Design patterns
 - 3. Memory Management

• Week-3

- 1. Unit Testing
 - a. Xunit
 - b. Nunit
 - c. MOQ
 - d. Rhino MOQ
- 2. Mini .NET MVC project.
- 3. Presented the dependency inversion concept to mentor

• Week-4

- 1. Parallel and Async Concept
 - a.Task Parallelism
 - b.Data Parallelism
 - c.Thread safety (Race condition, Deadlock)
 - d.Thread.Join() & Thread.Continue()
 - e. Monitor & MuteX to avoid Deadlock
 - e. Blocking Collection [Bounding, BLocking]
- 2. HR Session: Invest in 20's presesntation.

- 1. Recursion
- 2. .NET Database First Approach (Mini Project)
- 3. Stored Procedure
- 4. Triggers
- 5. EDM
 - a. Core parts of edbmx

b. Add EDMX directly in Entity Framework.

- Week-6
 - 1. Conceptual Db methodology
 - 2. Authentication And Authorization.
 - 3. POC-1: Melody-Music to my ears project using .Net MVC and Razor pages
 - a. Working on UI of POC1
 - 4. Sequence Diagram for POC1
- Week-7
 - 1. ERD Diagram for POC1
 - 2. POC1 UI demonstration
 - 3. Designing models for POC1
 - 4. Login And Sign UP
 - 5. Authentication and Authorization

• Week-8

- 1. Form to upload song
- 2. Form to create playlist
- 3. Read, Delete, Update feature for song and playlist
- 4. Implementing the crud features in admin dashboard

- 1. Two factor authorizaion
- 2. Scaffold Identity and Role Management
- 3. Search Bar with filter
- 4. Table pagination with Ajax
- 5. Project Demonstartion
- Week-10
 - 1. Zapcom Official Website
 - a. Working on How we build page
 - Implemented Timeline to define company approach
 - Made the page responsive
 - Redesigned the slider.
 - Modified UI
- Week-11
 - 1. Homepage: Re-Designing our customer section and replacing content
 - 2. Text and UI changes
 - 3. Changes in footer UI and providing links to it
 - 4. Made the page responsive.

• Week-12

- 1. What we build page
 - a. Create new tab section
 - b. Added new section for static data
 - c. Modify and Change UI of Industry section.
 - d. Made the page responsive

• Week-13

1. RPM (Neighborly Project)

[ReactJs & Typescript]

- a. Create a table and graph to represent data
- b. User should able to tog between table and graph
- c. Create search bar
- d. Selected property should be able to add again for comparison

• Week-14

- 1. Create contact us page
- 2. Created forms for job application
- **3.** Created from for business contact.
- 4. Who we are Page: Created hero image
- 5. Career Page: Modified UI and content slider
- 6. Created jobs post for US and Indian Branch

- 1. Viva Voyage Project
 - a. Research the flow of payment link generation provided by third party by testing it.
 - **b.** Change the workflow of microservices.
- Week-16
 - 1. POC 2 Project (MERN STACK)
 - 2. Content changes for Zapcom website
- Week-17
 - 1. Building RESTful Web APIs with ASP.NET Core Udemy Course
 - 2. Rest APIs in ASP.NET Core and C# 2022 edition Udemy Course
 - 3. POC 3 Project (.NET WEB API)
 - 4. Introduction To SQL Server
 - a. Create Database and Tables
 - b. Constraints
 - c. Alter Tables and Columns
 - d. Drop Table and Column

- e. Truncate Command
- f. INSERT, UPDATE, SELECT and DELETE
- g. AND, OR, IN, BETWEEN, NOT IN, LIKE, IS NULL

• Week-18

- 1. Stored Procedures
- 2. Functions
- 3. clustered index, non-clustered index
- 4. C# basics for beginners Udemy Course
- 5. C# intermediate Udemy Course
- Week-19
 - 1. C# advance topic Udemy Course
 - 2. Views (sql)
 - 3. CTE- common table expression
 - 4. Table Variable and Temp Table -SQL Server
 - 5. Merge Statements
- Week-20
 - 1. Create QA Environment For VivaVoyage (Front-End)
 - Pushed repo on EC2 instance
 - Migrate Database of WordPress content
 - Set Up Pipelines on GitLab
 - Create htaccess file.

- 1. Create QA Environment For VivaVoyage (Back-End)
 - Pushed repo on EC2 instance
 - Migrate Database
 - Set Up Pipeline on GitLab
 - Create Env fille

Certification And Training Completed Under Internship

- C# basics for beginners
- C# intermediate
- C# advance topic
- Solid Principles
- Building RESTful Web APIs with ASP.NET Core
- Rest APIs in ASP.NET Core and C# 2022 edition
- Querying Microsoft SQL Server with Transact-SQL
- ASP.NET Core Identity Authentication & Authorization
- The Complete ASP.Net Core Web APIs Course With JWT Security
- The Complete ASP.NET MVC 5 Course
- MERN Stack Course 2022 MongoDB, Express, React and NodeJS
- MERN eCommerce From Scratch
- GitLab CI: Pipelines, CI/CD and DevOps
- Docker for the Absolute Beginner Hands On DevOps
- Using Typescript with React

Website References

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- https://dotnettutorials.net/course/solid-design-principles
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- https://www.javatpoint.com
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- https://www.tutorialspoint.com

YouTube Channel References

- FreeCodeCamp.org
- Programming With Mosh
- Kudvenkat
- I Am TimeCorey
- DotNet
- Bhurgen Patel
- Traversy Media
- JavaScript Mastery
- Web Dev Simplified
- Les Jackson
- Code Affection
- Art of Engineer

My reflections/experiences of internship

Six months internship in Zapcom has brought a great boost to my professional career.

I had a wonderful experience to work with people who had a great hand in industry for many years and were also willing to help me in my learning process and difficulties.

At ZapCom, I was never restricted to just my project team. I was provided freedom to interact, consult seek help and guidance, etc. from any colleague.

I had the opportunity to work in multiple live projects which helped me to learn and work on many technologies and it also gave me confidence to accept any challenges.

I was lucky to give my contribution in building ZapCom's official website and also managing it.

Apart from the live projects I had to do proof of concept projects to show the learning progress and skills acquired and then I had to present the project to "The head of delivery", my mentor and other Tech leads in the company. Getting a positive reviews and feedback from them was the first milestone achieved in my internship.

We also had sessions to sharpen our non technical skills. We were taught how to improve our communication skills ,how to develop presentation skills, how to overcome crowd and stage fear, how to communicate via digital platforms and so on.

ZapCom has the best working environment and this is all possible because of the people working there who are kind and generous and also who does not believe in hierarchy which makes communication very easy. This made by experience in ZapCom more pleasant.

At ZapCom, there were many events like:

- Orphanage visit
- Secret Santa
- All Hands On
- Other celebrations