2. Reasons for your interest in this internship and what skills or experiences do you hope to gain?

Internships are an excellent way to connect classroom knowledge with real-world experience, allowing individuals to explore various career paths and specializations. The purpose of an internship is to develop professional skills in a hands-on environment. Because internships are a learning opportunity. One such internship is with Frugal Testing, a boutique testing firm that provides a comprehensive view of software application experience. By learning Frugal Testing skills, individuals can run software without installation, test from anywhere, and measure application performance from different geographic regions. This internship offers a bright future in the testing field, enhancing the individual's career prospects.

3. Visit through the website of Frugal Testing:

What pages did you find crucial and why?

    A.   In Frugal Testing website I find that all the pages were crucial but I find

          1.Home page

Because Home page was the mother of all pages because it gives total idea of what the website is and what work it will do and it gives a clear idea to where we have to go if we are looking for something we want in a website.

          2.Pricing page

Because Pricing page gives an idea of cost structure and Testing services. So they can estimate out total cost before getting an service based on their budget constraints.

          3.Contact Page

Because contact page is a must for every website in which it helps for potential clients to contact Frugal Testing for their queries or collaboration etc.

Not only these three pages there were another pages too. I am not saying they were unimportant because every page will serve its purpose.

But I think these were crucial according to my knowledge.

2.   Tell us which of our case studies you find as most valuable and Why?

A.   I like all the case studies because every case study tell about different purpose which frugal testing solves but personally I like the how frugal testing helps the performance of child care web application, and the one   frugal testing helps to improve the health care web based application, and finally the one which it helps to improve the response time of FIN-TECH firm <1 seconds.

These case studies explain how the frugal testing services and works helps the society as well as firms to improve their services which is very beneficial to clients and customers

4. What are your strengths and areas of improvement? Elucidate two examples of each and how do you plan to work on your areas of improvement?

I want to improve my adaptability. I hope this will be my next challenge of implementing change management principles to ease the transition for me and my team. Another area that I think could be improved is authorization. I plan to carefully monitor my team to see what each member likes and is good at so I can allocate work wisely. Ultimately, I hope to increase my focus. I like to multitask and take on multiple challenges at once, but it's good for me to focus on one task at a time so that I can improve the quality of the results. Therefore, I think if I can improve these skills, it will be of great help to my career development.

5.   According to you, what is the importance of the work environment and what environment do you prefer to work in? How would you add value to our organization?

My ideal work environment is one where I'm able to work as part of a team and that allows everyone's talents to grow. I've found that this type of environment is most conducive to my productivity, especially in a position that requires me to constantly improve my skills. I prefer to work both independently and as part of a team, as many employees work together and then branch off into their own respective duties. This balance of teamwork and independence, as I love collaborating with others and spending time alone to focus on my work responsibilities.

6. What is your vision about life and professional career after 5 years?

I never figured out how to respond when asked where do you see yourself five years from now. I was never decisive enough so that people could rely on me. I want to continue working on this part. In the five years, I see myself taking calculated decisions for the growth of my professional careers. Earning reliability is my basic objective. I want the administration to lay their trust on me. Earning credibility can lead me to new responsibilities. Performing those with great zeal can improve the credibility to a new level. In five years, I hope I hit the target I have aimed for.

7. What is the impact of semiconductor chip shortage across the global economy?

Semiconductor chips have become essential to modern technology, powering everything from smart phones and laptops to cars and household appliances.

Semiconductor chips have become essential to modern technology, powering everything from smart phones and laptops to cars and household appliances. And, as the world increasingly relies on these advanced chips, a global shortage has emerged, disrupting supply chains, and causing ripple effects throughout the global economy.

The semiconductor chip shortage results from various factors, including pandemic-related disruptions, supply chain challenges, and increased demand for electronics as more people work and learn from home. As lead times for cars and flagship phones get longer and utility appliances get exorbitant, we are starting to realize how much this tiny device drives not just global economies but also our daily lives.

8. What is your vision about life and professional career after 5 years?

I never figured out how to respond when asked where do you see yourself five years from now. I was never decisive enough so that people could rely on me. I want to continue working on this part. In the five years, I see myself taking calculated decisions for the growth of my professional careers. Earning reliability is my basic objective. I want the administration to lay their trust on me. Earning credibility can lead me to new responsibilities. Performing those with great zeal can improve the credibility to a new level. In five years, I hope I hit the target I have aimed for.

.9.What is the impact of semiconductor chip shortage across the global economy?

Semiconductor chips have become essential to modern technology, powering everything from smart phones and laptops to cars and household appliances.

Semiconductor chips have become essential to modern technology, powering everything from smart phones and laptops to cars and household appliances. And, as the world increasingly relies on these advanced chips, a global shortage has emerged, disrupting supply chains, and causing ripple effects throughout the global economy.

The semiconductor chip shortage results from various factors, including pandemic-related disruptions, supply chain challenges, and increased demand for electronics as more people work and learn from home. As lead times for cars and flagship phones get longer and utility appliances get exorbitant, we are starting to realize how much this tiny device drives not just global economies but also our daily lives.

10. Please share the following details in your Profile :
    a.   **LinkedIn Profile Link**
    b.   **Resume (PDF file)**
    c.   **Any other Technical profiles like Hacker rank, Code Chef, Git hub, Hacker Earth?**

d. Any other Project links about which you are really proud of

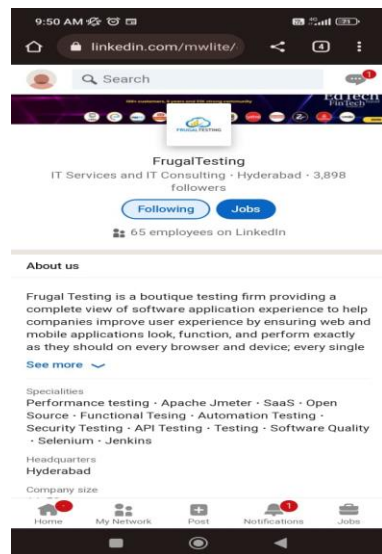CHILAMKURTHI_VENKATA BABY SAROJINI_Resume_14-06-2023-12-49-53.pdf

.GITHUB
https://github.com/sarojiniChilamkurthi

..LINKEDIN
https://www.linkedin.com/in/sarojini-chilamkurthi-51603927a/

11. Visit and follow the Frugal Testing page on all the social media platforms. Like/Share the posts and also share your views on the posts in the comment section.

- **You have to share the screenshot in the answer sheet as proof for this task.**
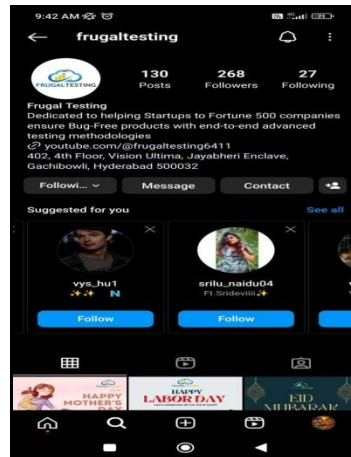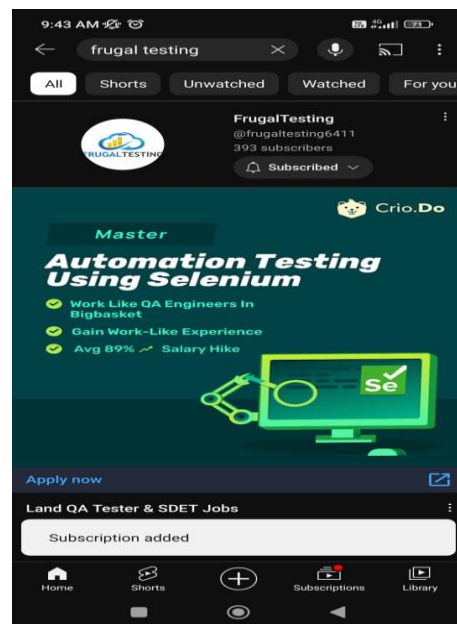
a. LinkedIn : https://www.linkedin.com/company/frugaltesting/mycompany/

b.

c. FaceBook : https://www.facebook.com/FrugalTest

d. Instagram : https://instagram.com/frugaltesting?igshid=YmMyMTA2M2Y=

e.

f. YouTube : https://www.youtube.com/channel/UCjikgYGfeqU4ZPKQNm1V5tg/featured

g. GooglePage : https://frugaltesting.com/
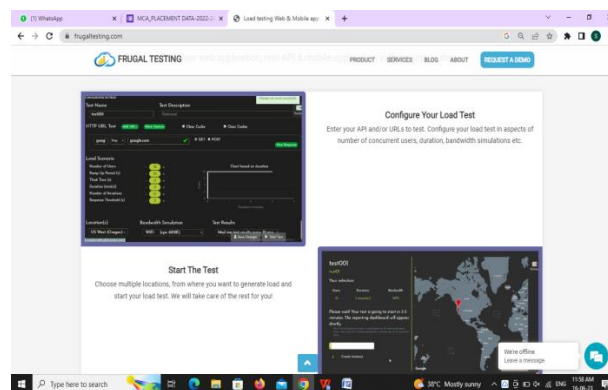

h.

12. What do you understand by test closure?

Test closure is the final phase of the software testing life cycle (STLC), where you evaluate the results and outcomes of the testing process and document the lessons learned and best practices for future improvement.
A test closure report is a formal document that provides a comprehensive overview of the testing scope, objectives, metrics, methods, tools, resources, defects, issues, risks, and recommendations. It also includes a comparison of the planned and actual test schedule, budget, and quality, as well as an analysis of the test effectiveness and efficiency. To create a test closure report, you need to collect and consolidate the relevant data and information from the test plan, test cases, test logs, defect reports, test metrics, and stakeholder feedback. You also need to follow a clear and consistent format and structure, such as the IEEE 829 standard for test documentation, and use graphs, charts, and tables to illustrate the key points and findings.

13. What is monkey testing?

Monkey testing is a crucial testing method that is done to authenticate the functionality of the product application. Monkey testing is done to ensure that the specifications given by the client are properly addressed in the software.
Monkey testing is a kind of black box testing. This testing is done when the tester is the time deficit in order to write and execute the function. Monkey testing is a software testing technique in which the operator provides the software with some random inputs in order to analyze the behavior of the software. It also finds out whether the system or application will work properly under such conditions or crash. The testing is usually used by the tester at the beginner's level.

14 .How do we create an Amazon EC2 instance?

Launching EC2 instances is one of the most basic tasks AWS cloud users perform. AWS makes it easy to complete the EC2 instance launch process, but there are still many steps involved.

Step1. Select a region
One of the most important steps is to select the desired AWS region. This can be done from the top navigation bar of the AWS Console.
Step2. Navigate to the EC2 Console
Once you select the desired AWS region, go to the EC2 Console. From the same landing page, search for EC2 . Your landing page in the management interface will likely display EC2 among the most commonly used services in the account.
Step3. Create the EC2 instance
An EC2 instance is a virtual server deployed in the AWS cloud. The first server-specific configuration to choose is the Amazon Machine Image (AMI). An AMI is a base server image stored in the cloud
Step4. Choose an instance type
After selecting the AMI, the next step is to choose an instance type . There are close to 500 types of EC2 instances in instance families. They are grouped by characteristics in terms of compute, memory, storage and networking resources. Most instances are billed by the minute. Pricing is proportional to the

resources allocated to it, such as memory, CPUs, Elastic Block Store (EBS)/SSD storage and the network's data throughput rate

Step5. Configure storage

Most EC2 instances attach to an EBS volume, which is configured in this section. Specify the storage size in gigabytes and the storage type options. Options include various generations of general-purpose SSD or provisioned IOPS as well as older-generation magnetic volumes (not recommended)..

Step6. Tag the instance

A consistent tagging strategy across AWS resources is an operational best practice. Therefore, appropriately tagging the new instance is important.

Step7. Build in security

Security groups in AWS determine a set of access rules for both incoming and outgoing traffic in the EC2 instance. The settings include port ranges, IPs or security group IDs assigned to resources trying to access an EC2 instance. Limit incoming traffic to only the set of parameters strictly required to access an EC2 instance.

Step8. Enable SSH access with a key

The last step is to create an EC2 key or select an existing one (Figure 9). The key is used to enable Secure Shell (SSH) access into the EC2 instance.

15. Explain the PDCA cycle?

:   PDCA or the Deming cycle is a management methodology that aims to continually improve processes. This cycle is based on four stages: plan, do, check, and act.

To adapt to market changes, improve efficiency, boost productivity, and meet the needs of your customers, having a method is required. Already known among managers for about a century, the PDCA cycle is still widely used, and can strongly contribute to optimizing your company's processes.Want to learn more about the stages of this cycle and how it can be applied in your business? Read on to find out! PDCA stands for Plan, Do, Check, and Act/Adjust.

Accordingly, the concept of PDCA is related to a process of continuous improvement that must be applied in these four stages, performed cyclically, with the aim of making products or processes better and faster.

16. Share a pseudo-code to find duplicate characters in the string. Example: INPUT: "Welcome to Frugal Testing", OUTPUT: "eltg".

```
        public class DuplicateCharacters

 {

public static void main(String[] args) {

String string1 = "Great responsibility";
```

```
int count;

char string[] = string1.toCharArray();

System.out.println("Duplicate characters in a given string: ");

}

}
```

17. Automation Testing A Complete Replacement For Manual Software Testing?

Automatic Testing is a complete replacement for the Manual software Testing because In manual testing humans will test the code Where as in Automation Testing is done with the use of Script code and automation tools by a tester. Manual Testing process is also not accurate because of possible of human errors where as in Automation testing process is reliable because it is a code script based. Manual testing is also a time consumed process because humans will take some time to test the code but Automation Testing is very fast. We can do manual Testing without having any programming knowledge where as Automation testing can not be possible without programming knowledge so we are having a lot of benefits in the Automation testing. So I feel Automation Testing is a complete replacement for Manual software Testing.

18. What is your vision about life and professional career after 5 years?

I never figured out how to respond when asked where do you see yourself five years from now. I was never decisive enough so that people could rely on me. I want to continue working on this part. In the five years, I see myself taking calculated decisions for the growth of my professional careers. Earning reliability is my basic objective. I want the administration to lay their trust on me. Earning credibility can lead me to new responsibilities. Performing those with great zeal can improve the credibility to a new level. In five years, I hope I hit the target I have aimed for.

1. Gmail

2. Google Docs

3. Google Analytics

4. Microsoft Office 365

5. Online Forms

6. Amazon

7. Canva

8. Face book

9. WhatsApp

10. Email Marketing Tools

11. Netflix

Improving a web application's performance becomes more important as the number of concurrent users the application has. There are several reasons to enhance the performance of your web application, even if you do not have a huge amount of concurrent users. Improve the end-user experience by reducing response times. Reduce your application's CO2 footprint.

19. Please write an article on any ONE of the below topics

(500-1500 words, no plagiarism, better to use some graphics)

Exploratory Testing is a type of software testing where Test cases are not created in advance but testers check system on the fly. They may note down ideas about what to test before test execution. The focus of exploratory testing is more on testing as a "thinking" activity.
Exploratory Testing is widely used in Agile models and is all about discovery, investigation, and learning. It emphasizes personal freedom and responsibility of the individual tester.

Exploratory Testing is a simultaneous process of test design and execution all done at the same time. It is a new way of thinking and can be automated. It is structured and rigorous, and is highly teachable and manageable. It involves ad-hoc testing with a purpose of finding bugs. The process of Exploratory Testing is called the SBTM Cycle. Exploratory Testing involves creating a Bug Taxonomy, categorizing common types of faults, analyzing root cause analysis, developing ideas to test the application, creating a Test Charter, Time Box, reviewing results, debriefing, compiling output results, and checking for additional testing. It is important to pair up testers for effective testing, keep notes on what needs to be tested, track questions and issues raised during testing, and monitor Test Coverage, Risks, and Test Execution Log.

Following is a step by step process on How to perform Exploratory Testing which is also called session based test management (SBTM Cycle):

Step 1) Create a Bug Taxonomy (classification)

- Categorize common types of faults found in the past projects
- Analyze the root cause analysis of the problems or faults
- Find the risks and develop ideas to test the application.

Step 2) Test Charter

- Test Charter should suggest
1. what to test
2. how it can be tested
3. What needs to be looked
- Test ideas are the starting point of exploration testing
- Test charter helps determine how the end user could use the system

Step 3) Time Box

- This method includes a pair of testers working together not less than 90 minutes
- There should not be any interrupted time in those 90 minutes session
- Timebox can be extended or reduced by 45 minutes
- This session encourages testers to react on the response from the system and prepare for the correct outcome

Step 4) Review Results

- Evaluation of the defects
- Learning from the testing
- Analysis of coverage areas

Step 5) Debriefing

- Compilation of the output results
- Compare the results with the charter
- Check whether any additional testing is needed

. Testing is useful when requirement documents are not available or partially available
. It involves Investigation process which helps find more bugs than normal testing-
.Uncover bugs which are normally ignored by other testing techniques
.Helps to expand the imagination of testers by executing more and more test cases which finally improves productivity as well
.This testing drill down to the smallest part of an application and covers all the requirements
.This testing covers all the types of testing and it covers various scenarios and cases
.Encourages creativity and intuition
Software Engineering, Exploratory testing is performed to overcome the limitations of scripted testing. It helps in improving Test Case suite. It empathizes on learning and adaptability.

20. **The following questions have no right or wrong answer. It is a basic measure to judge your personality. Please exhibit integrity while answering the following. You need to choose only one option.**

A: You are totally exhausted because your week was endless and less than great. How are you going to spend your weekend? Answer: _____

A. I'll switch on the "Don't disturb" mode on my phone and stay at home. I'll watch a new episode of my favourite TV show, do a puzzle, and take a long bath with a book.

B: Which of these 2 descriptions suits you more? Answer: _____

i.) A. The most important thing for me is what's happening here and now. I assess real situations and pay attention to details.

C: A competitor of your current employer is trying to entice you. You have doubts because the salary is much higher there, but the staff here is great. Moreover, the head of your department hinted that he will recommend you to the bosses when he retires. How are you going to make a decision? Answer: _____

A. I'll shift to my competitor because the remuneration is higher as compared to the current position.

D: Only 2 weeks are left before your close friends' wedding. How are the preparations going? Answer: _____

A. Why prepare? I'll be having fun and enjoying myself at the party. I'll improvise my wedding speech. The best things happen spontaneously.

.