Tutorial: Host Your Website on AWS S3

1. Fork and Download the Theme File

Let's start with your knowledge with GitHub, login your GitHub account first.

Open link: https://github.com/udmis/freelancer, you'll see the repository with personal website theme files as shown in Fig. 1. Click "Fork".

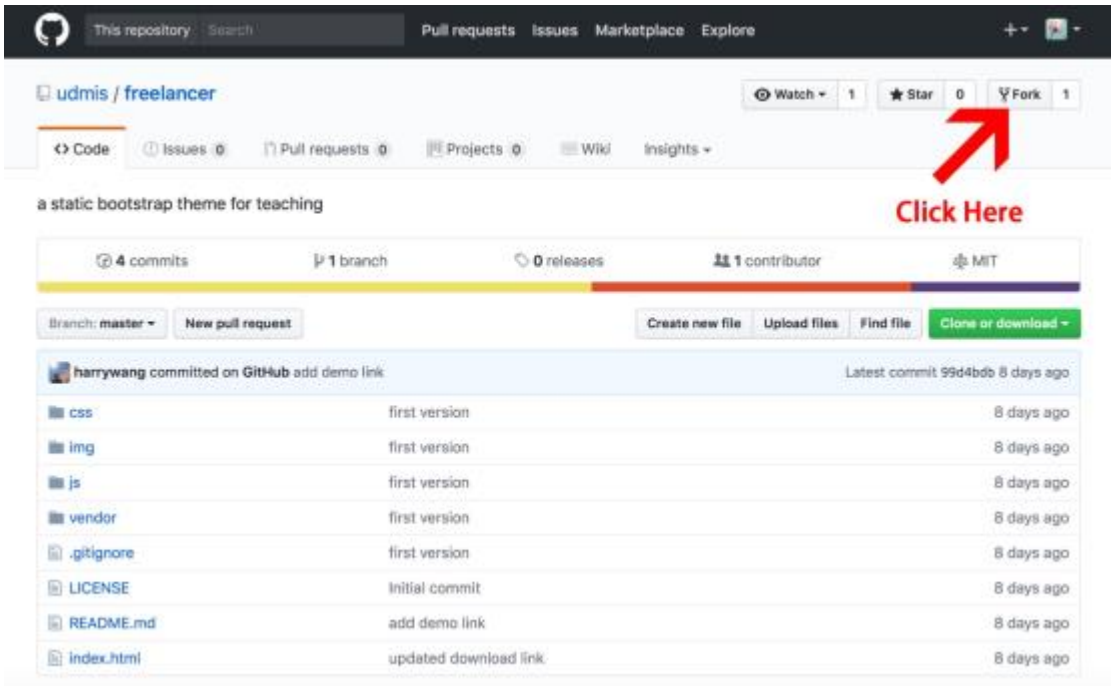

Fig. 1

Then, you will have the forked repository in your own GitHub. Copy the URL.

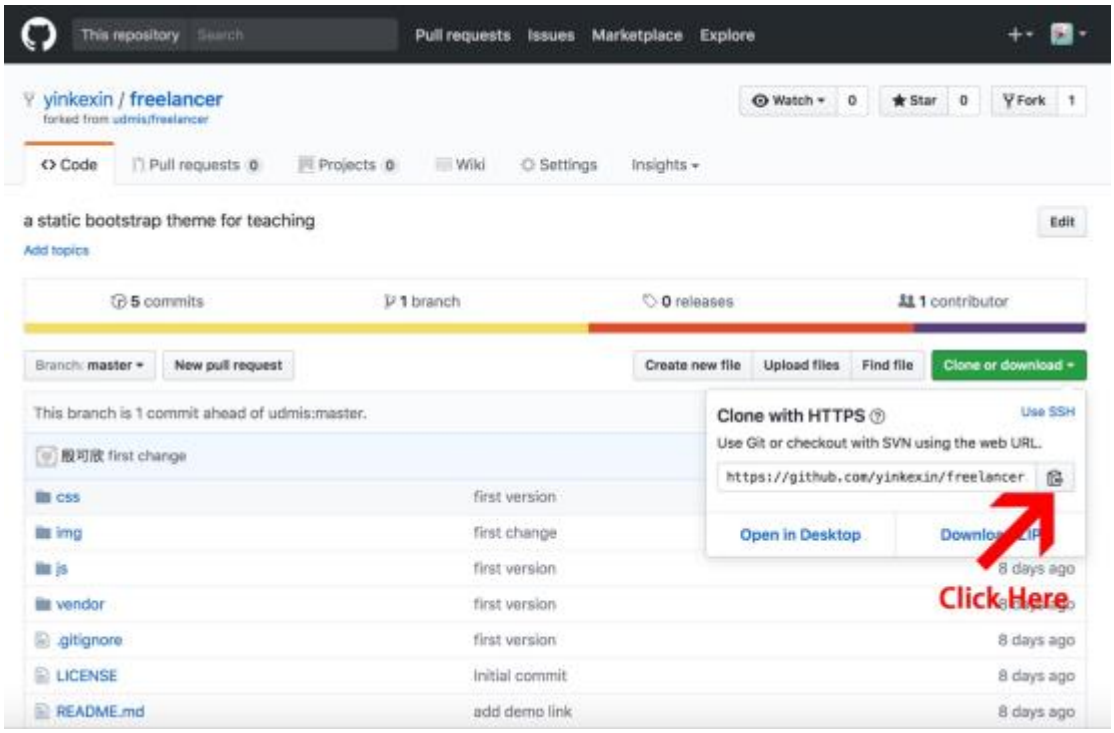

Fig. 2

Open a folder in Terminal, you will clone the forked repository from your GitHub in this folder.

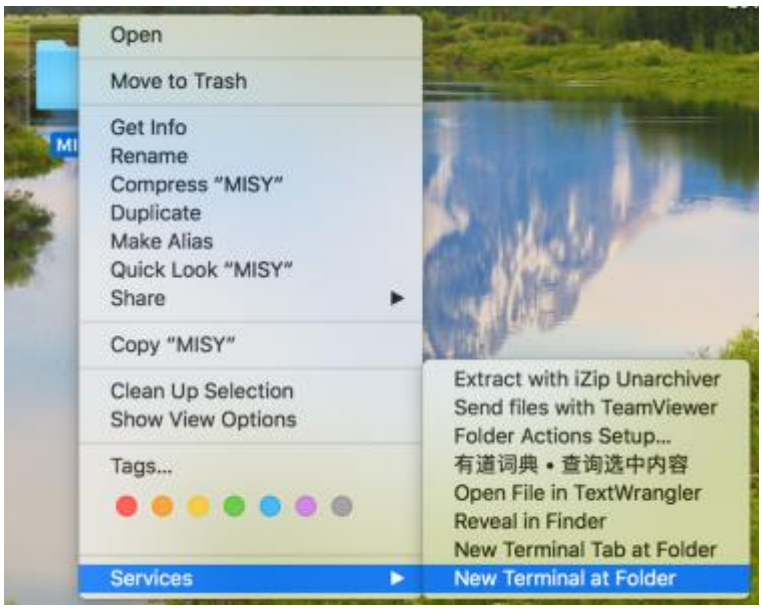

Fig. 3

Use command **git clone** https://github.com/yinkexin/freelancer.git (URL you just copied) to download the theme files.
Use command **ls** to check whether the download is successful.
Use **cd .. freelancer** to open the theme folder.
Then, use **atom .** to open the folder in atom.
If you finish all the procedures above rightly, you should have Atom opened appropriately as shown in Fig. 4.

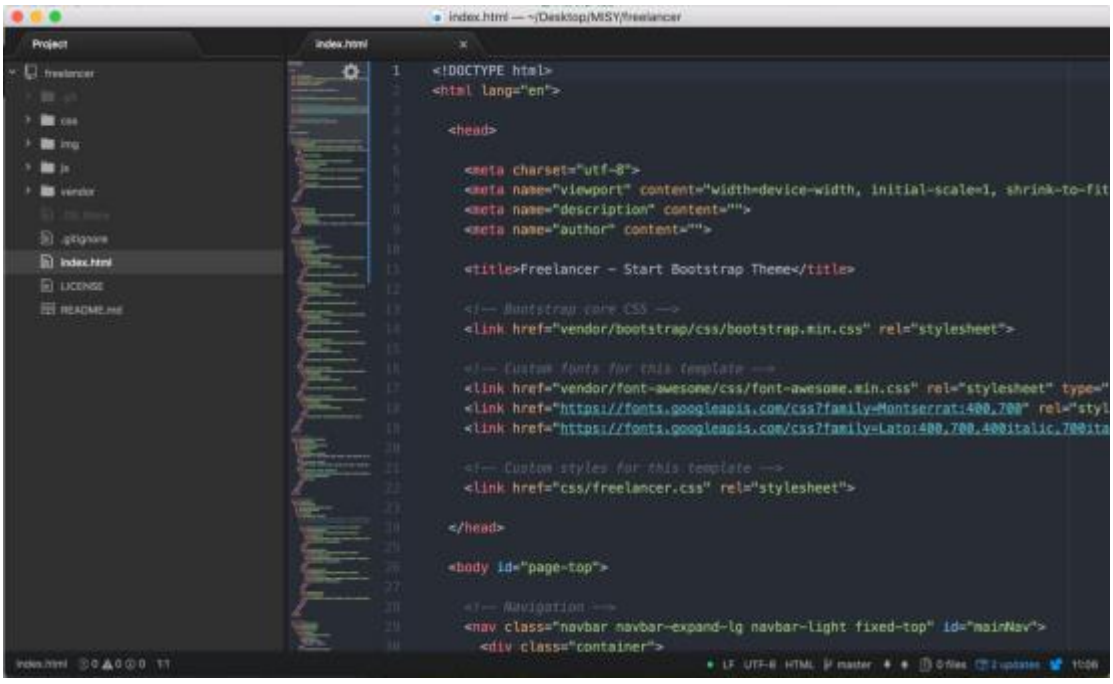

Fig. 4

2. Develop Your Own Personal Website

You can first try to open html file “index.html” with double click in your browser, you should see the following page:

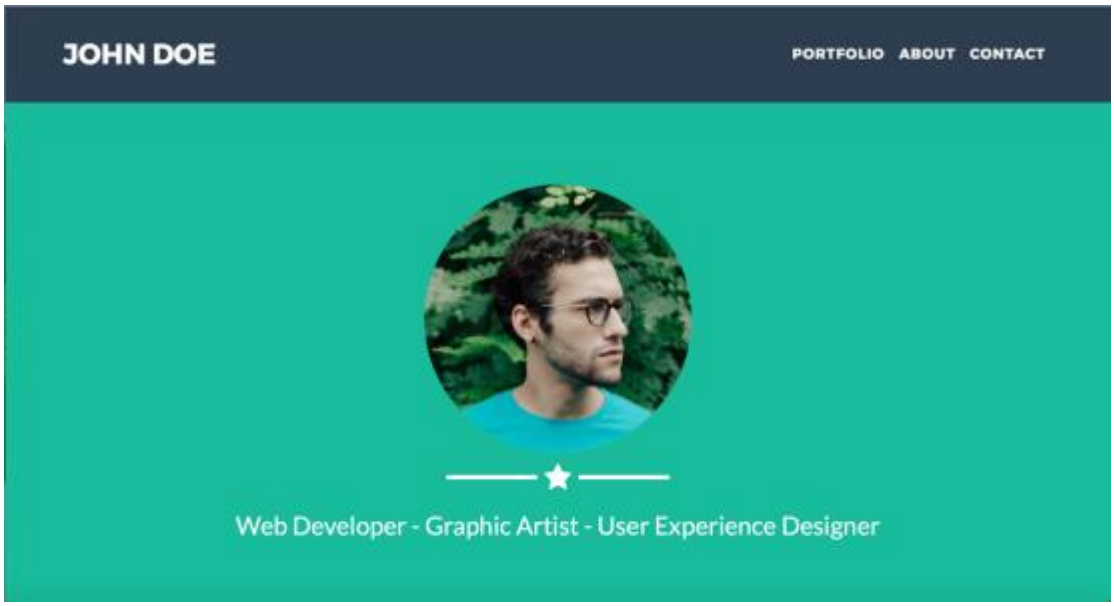

Fig. 5-1

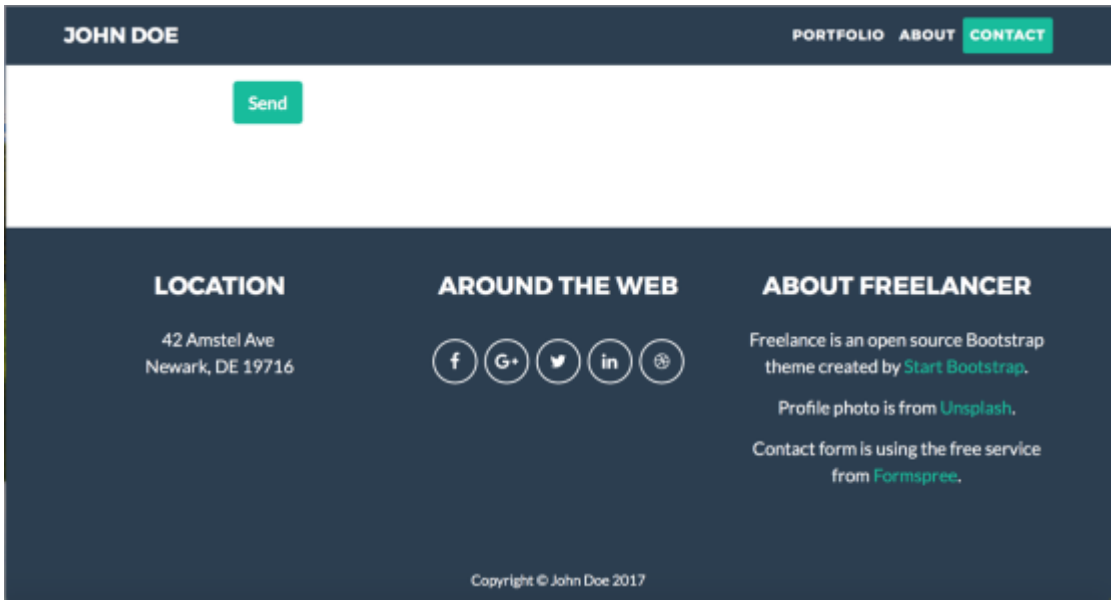

Fig. 5-2

What you are required to do is:

I. Change name “JOHN DOE” with your own name;
II. Update the “LOCATION” with your own;
III. Change the photo to your own ones.

I. Change the name “JOHN DOE”.

Open file “index.html” in atom.

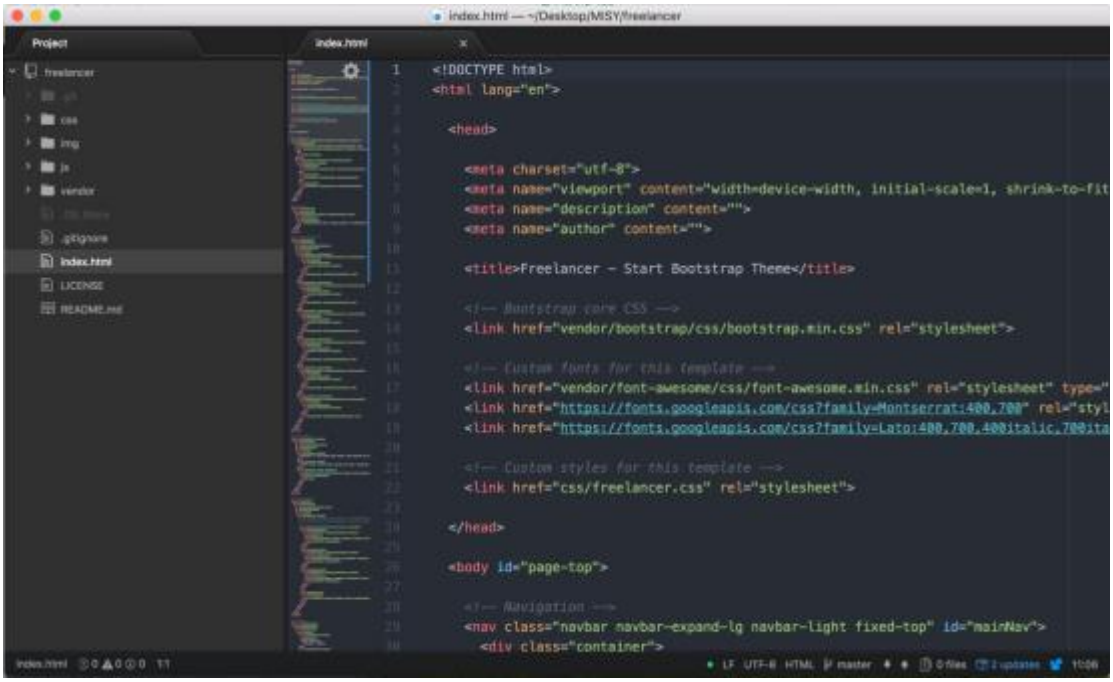

Fig. 6

Find the code line corresponding to the name in the html file and change it with your own name.

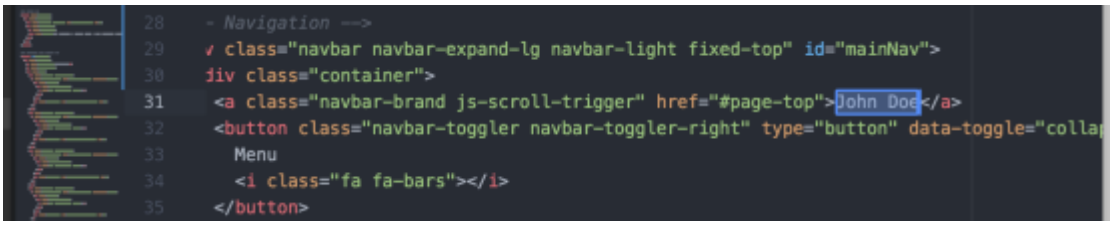

Fig. 7-1

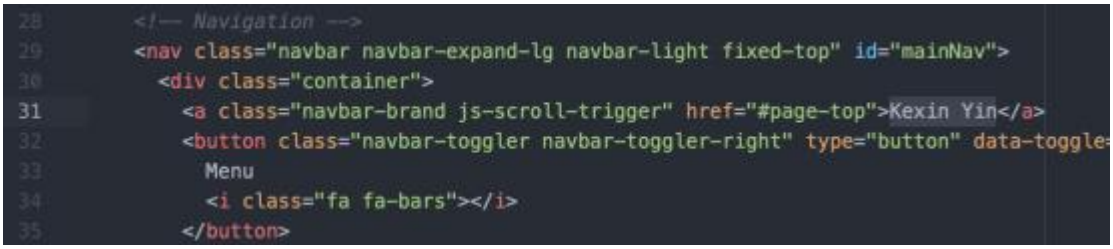

Fig. 7-2

Then, save your changes. Refresh your opened html file “index.html”, you’ll find the name has already been changed as shown in Fig. 8.

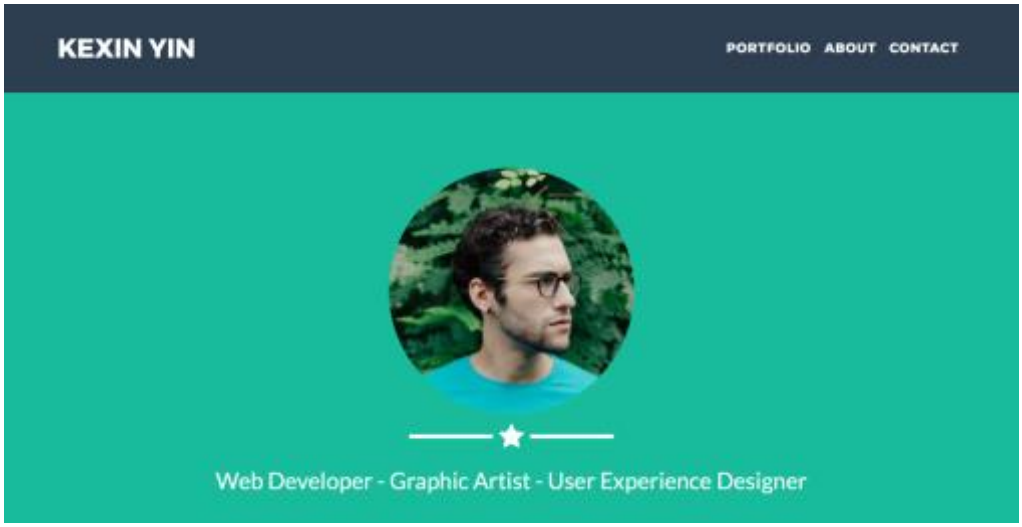

Fig. 8

II. Update the "LOCATION".

Find the code line corresponding to the location in the html file and change it with your own.

```
198   <!-- Footer -->
199   <footer class="text-center">
200     <div class="footer-above">
201       <div class="container">
202         <div class="row">
203           <div class="footer-col col-md-4">
204             <h3>Location</h3>
205             <p>42 Amstel Ave
206               <br>Newark, DE 19716</p>
207           </div>
```

Fig. 9

Then, save your changes. Refresh your opened html file "index.html", you'll find the location has already been changed as shown in Fig. 10.

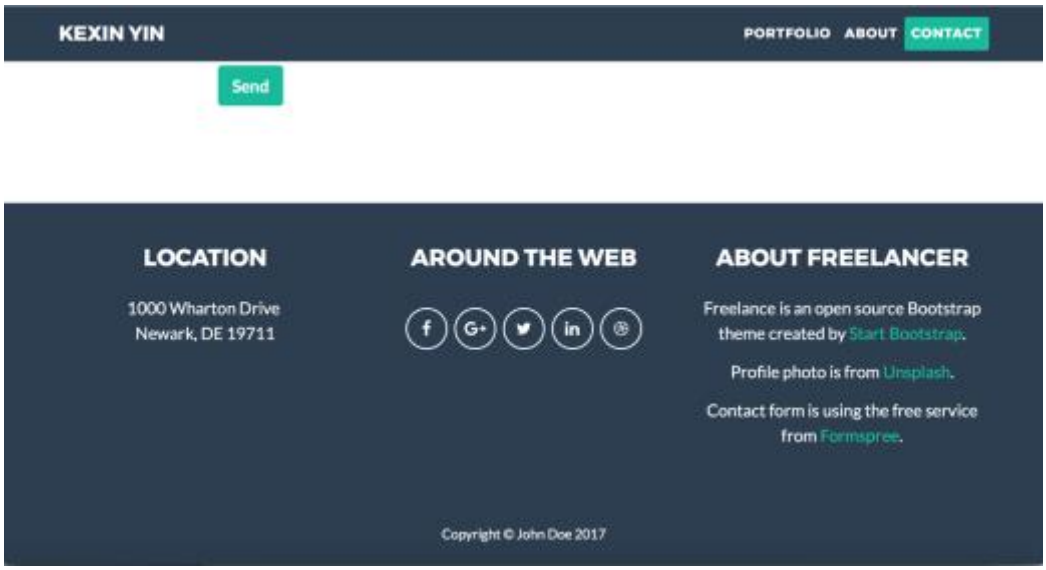

Fig. 10

III. Change the photo to your own ones.

First, you need to know where is the image file locate in the website folder.

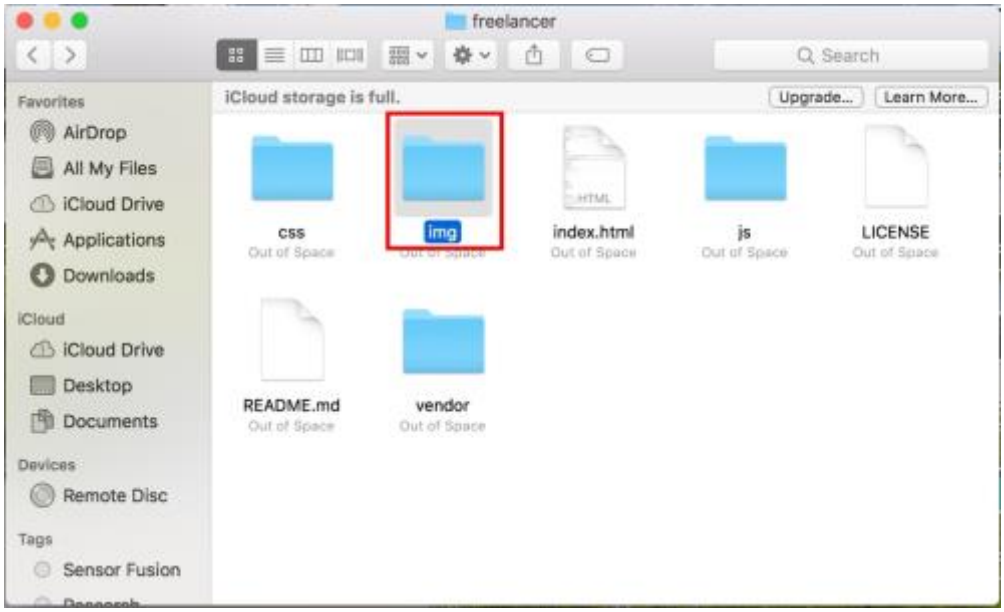

Fig. 11-1

Fig. 11-2

Find a photo of yourself, and edit it to square with 300*300 pixels using any image processing software you know. For example, you can use Mac Preview. Then, drag that photo into folder “img” as shown in Fig. 12.

Fig. 12

Then, we need to update the name of the image file in “index.html”.
Find code line corresponding to the path of image in the html file and change the image name with your own photo.

```
52      <!-- Header -->
53      <header class="masthead">
54        <div class="container">
55          <img class="img-fluid img-round" src="img/profile.jpg" alt="">
56          <div class="intro-text">
57            <hr class="star-light">
58            <span class="skills">Ph.D Student - Teaching Assitant - Web Developer</span
59          </div>
60        </div>
61      </header>
```

Fig. 13-1

```
52      <!-- Header -->
53      <header class="masthead">
54        <div class="container">
55          <img class="img-fluid img-round" src="img/KexinYin.jpg" alt="">
56          <div class="intro-text">
57            <hr class="star-light">
58            <span class="skills">Ph.D Student - Teaching Assitant - Web Developer</span
59          </div>
60        </div>
61      </header>
```

Fig. 13-2

Save the changes. Refresh your opened html file “index.html”, you’ll find the photo has already been change.

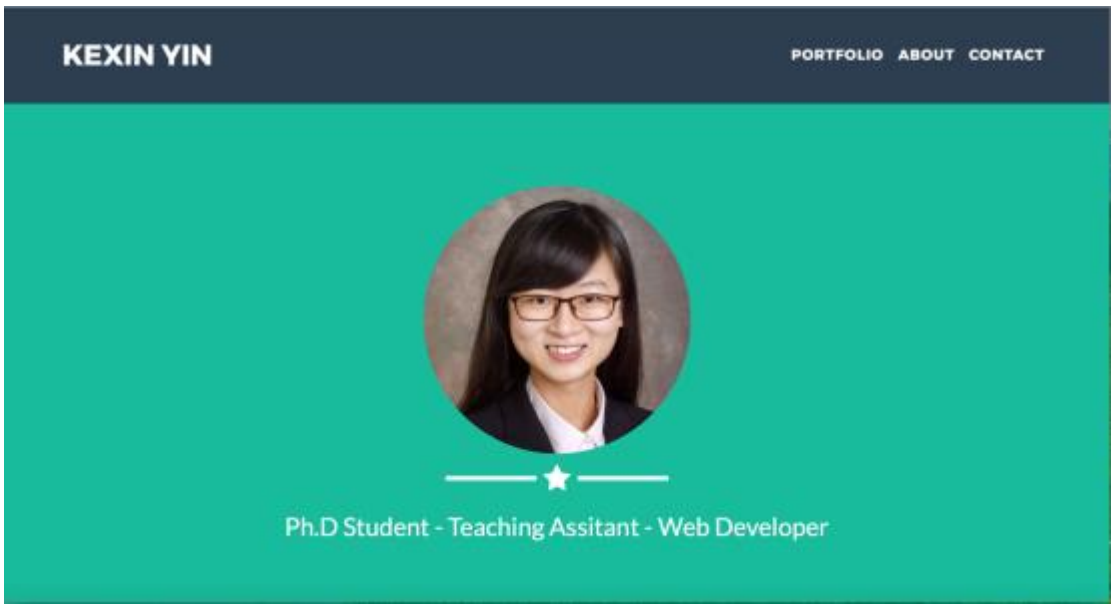

Fig. 14

3. Deploy your website in AWS Educate

For convenience, you are suggested to use Google Chrome in this step.
Login AWS with your account.

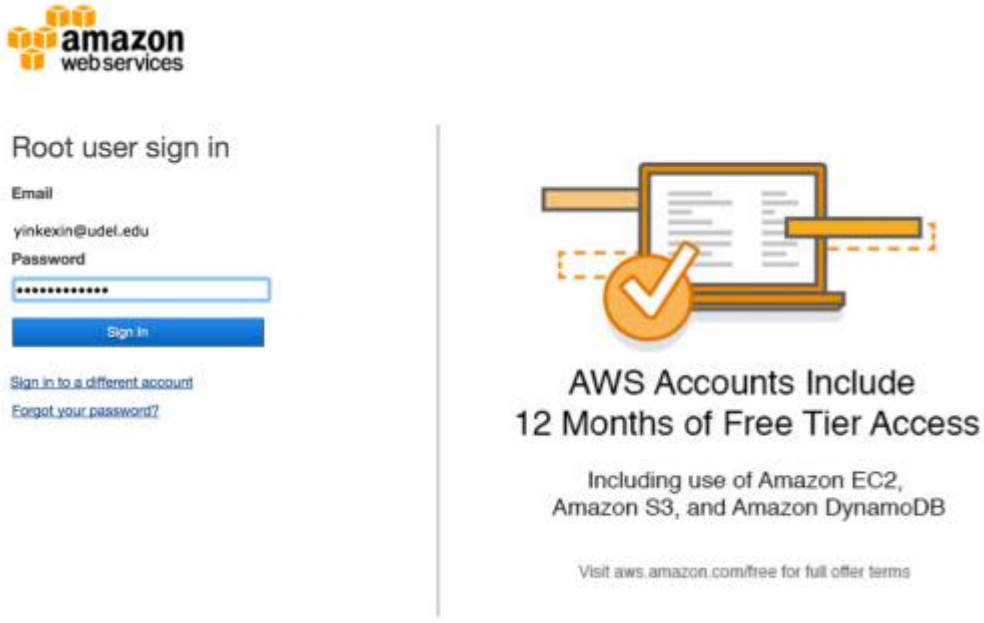

Fig. 15

Click All service to open the service list of AWS.

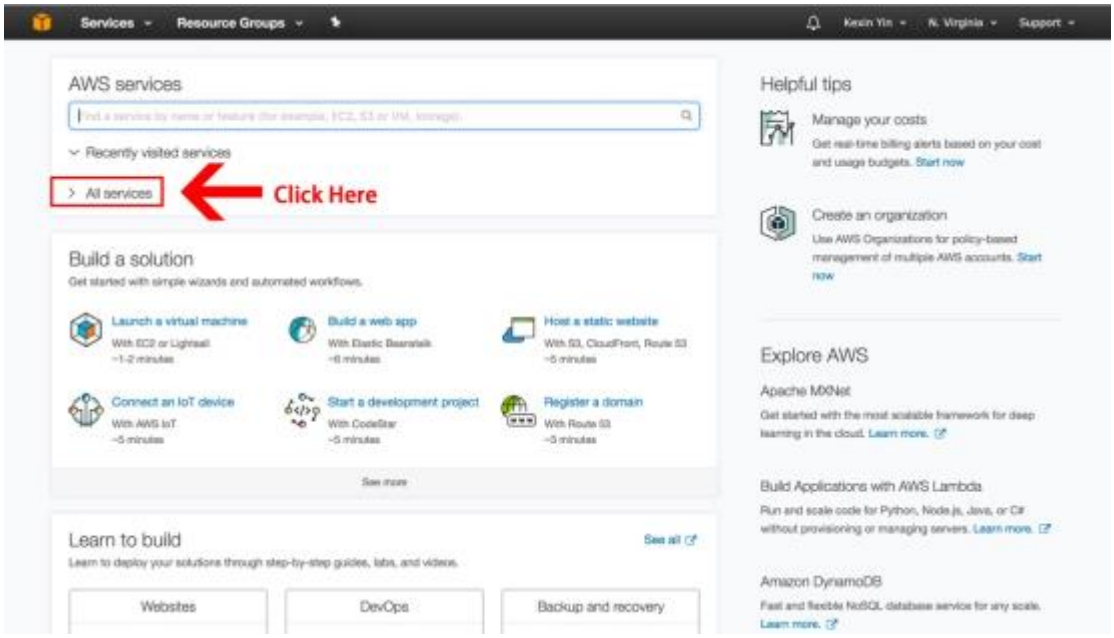

Fig. 16

Then, choose S3 service under the column of Storage.

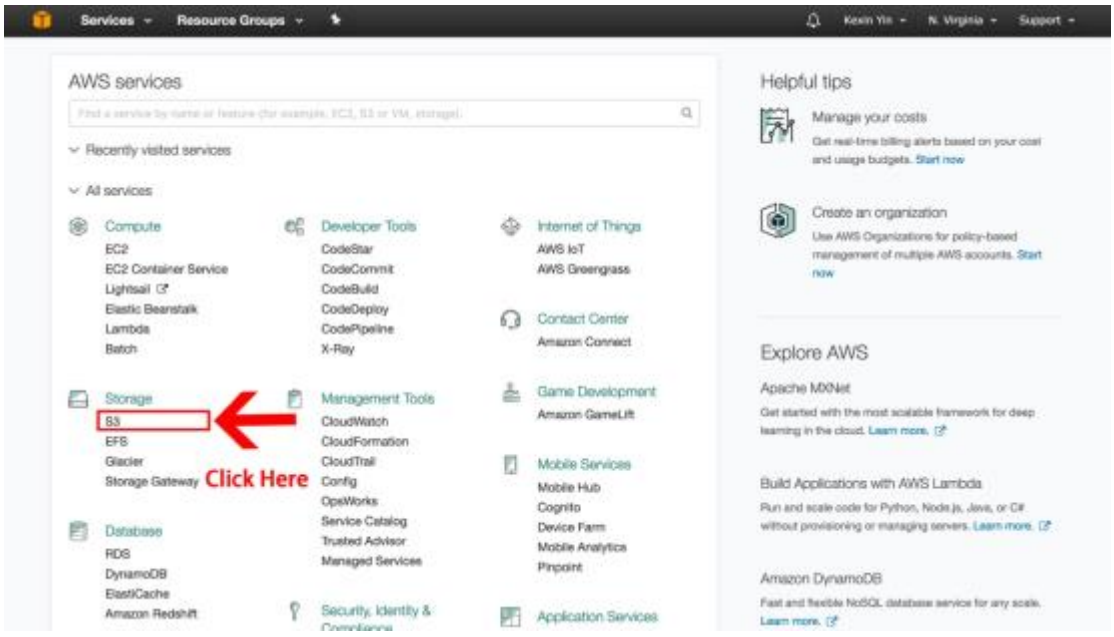

Fig. 17

You will see the page shown in Fig. 18. Now we are going to create a new bucket. Click “+ create bucket”.

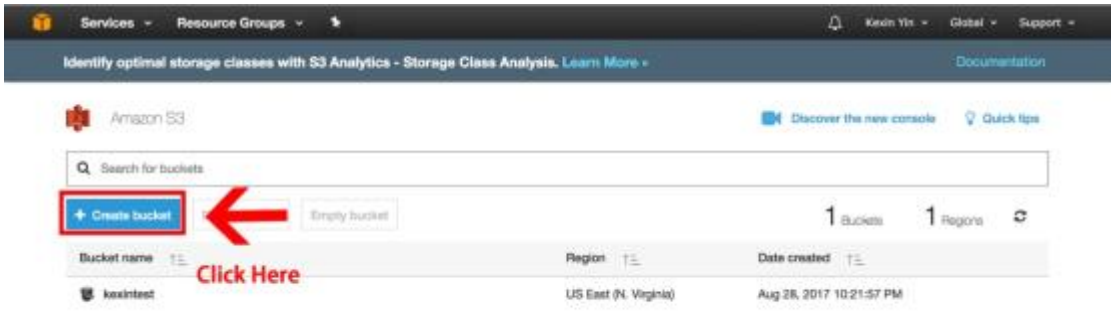

Fig. 18

Insert name for your new bucket, for example “misy350-17fall-kexin”. You can choose the region near you as “US East (N. Virginia)”. Then click next.

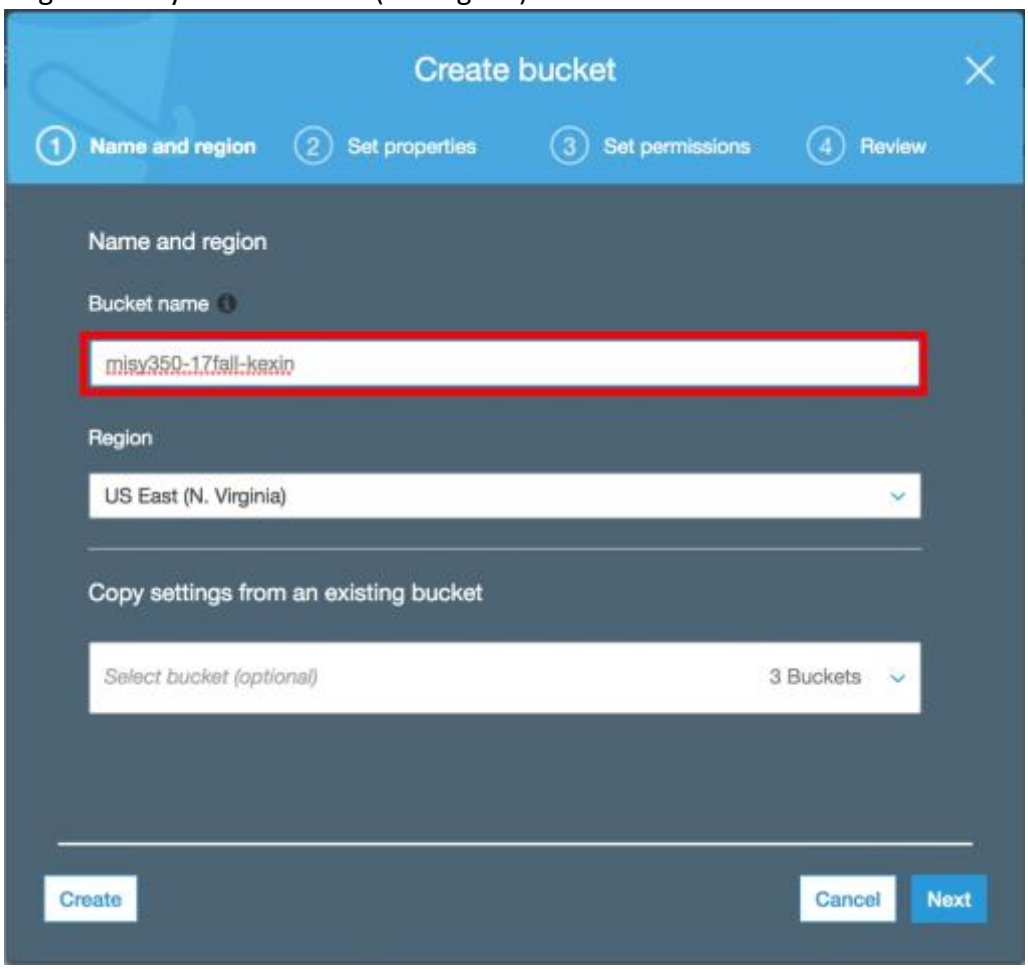

Fig. 18

Leave all the choices unchanged in Fig. 19, click next.

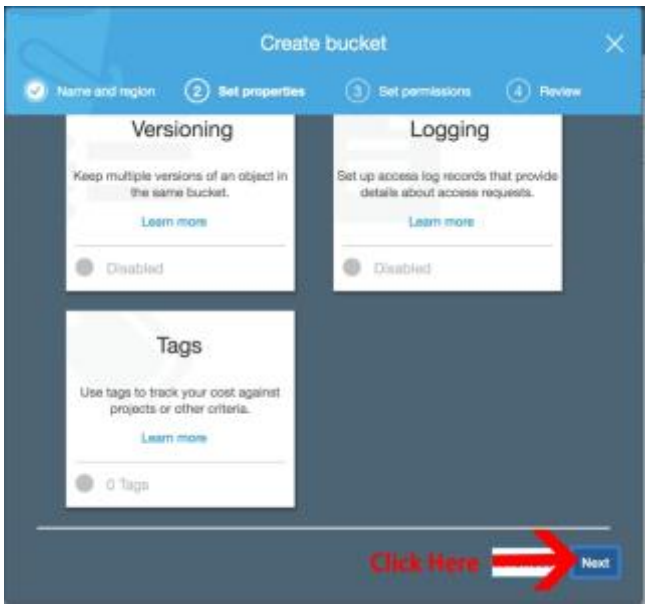

Fig. 19

For the permission, choose “Grant public read access to this bucket”, then click next.

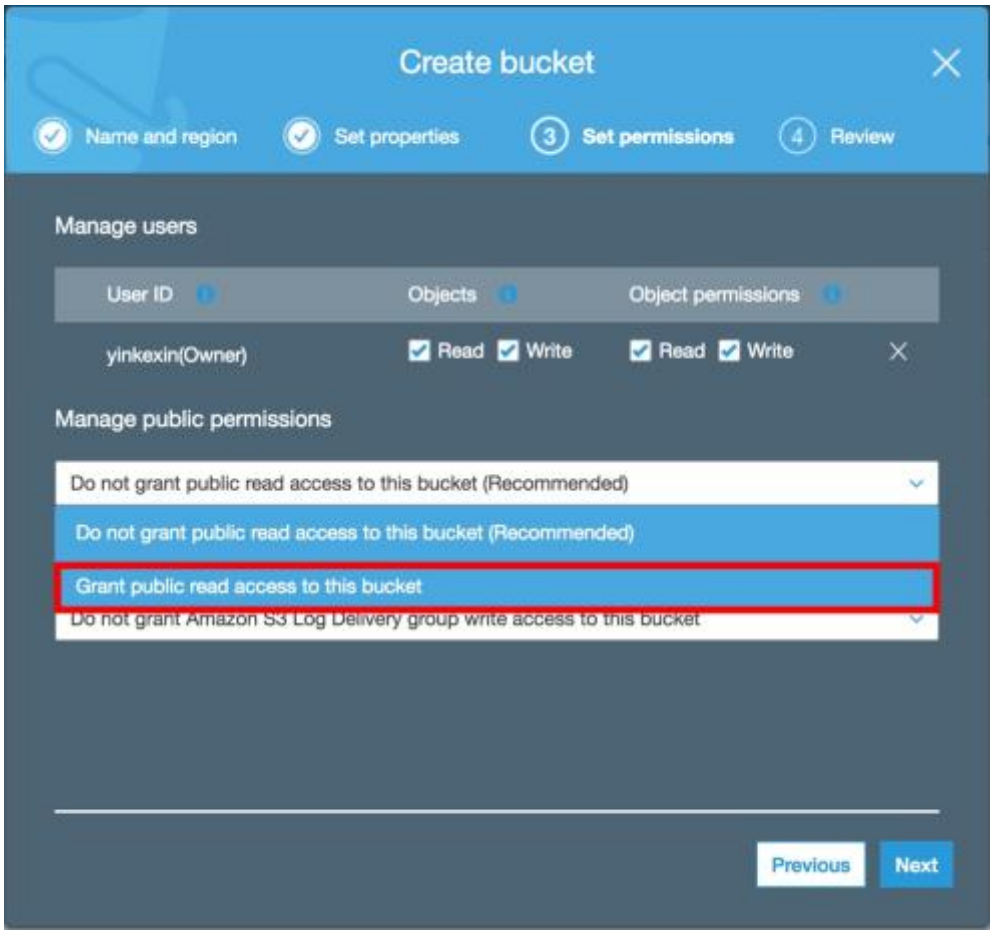

Fig. 20

Review the detail of your new bucket, and click button “create bucket”.

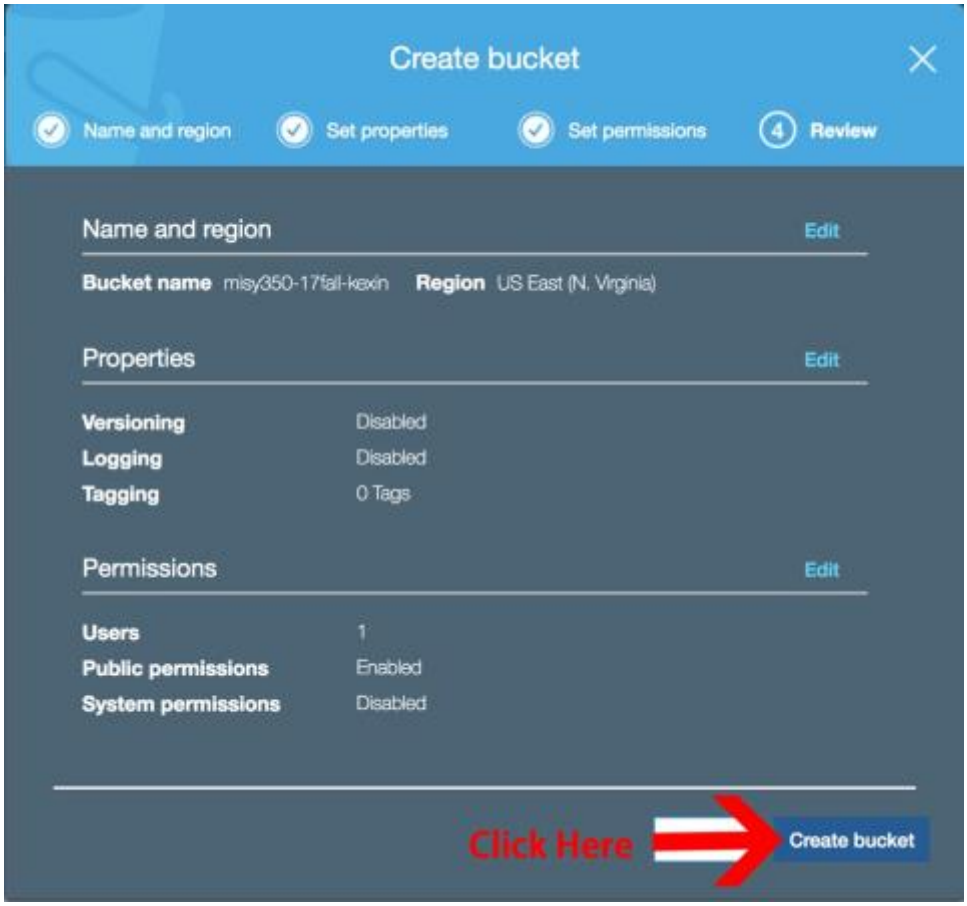

Fig. 21

Now, you have your bucket created. But we still need to configure some properties. Click “Properties”.

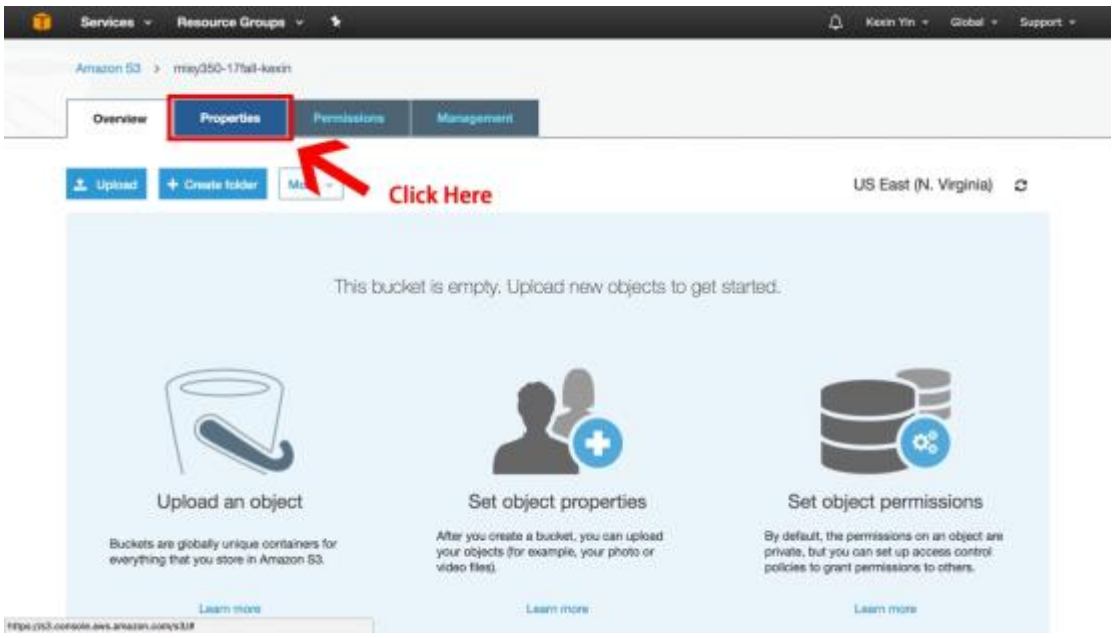

Fig. 22

You can see now, option “Static website hosting” is disabled, click it.

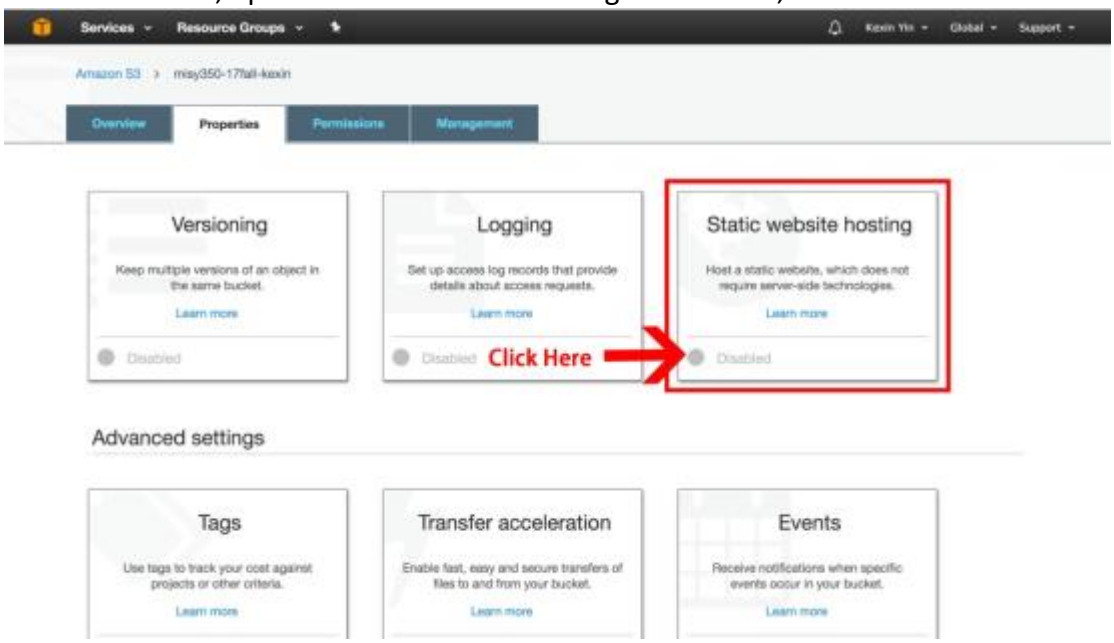

Fig. 23

In the pop out window, chose “use this bucket to host a website”, and fill in “index document” with index.html (the html file of your personal website). You can just leave “Error document” empty. Then, click next.

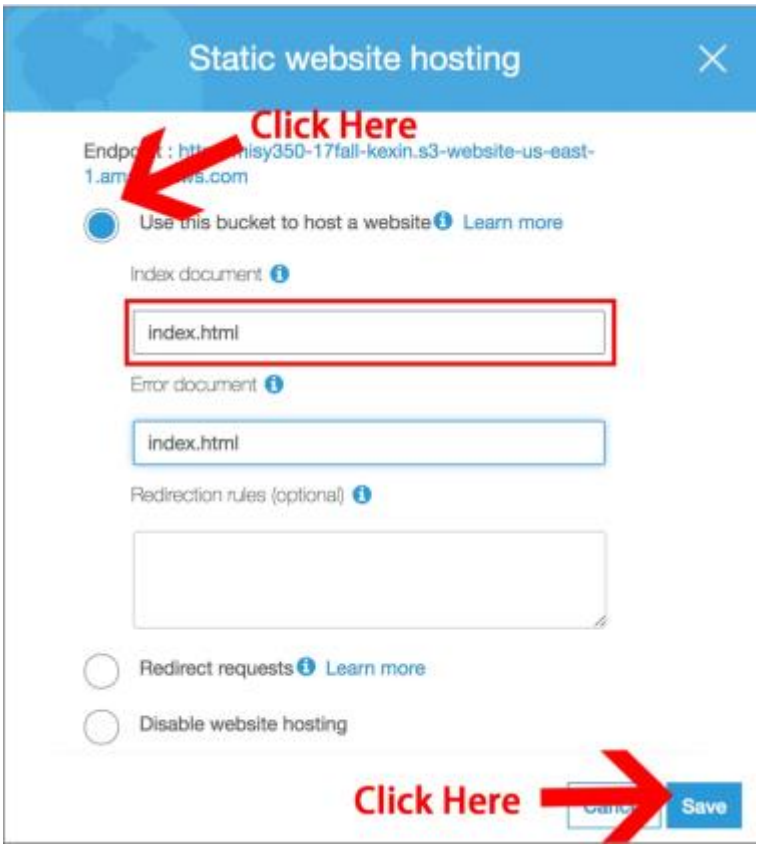

Fig. 24

Now, you can see that the function “Static website hosting” has already been enabled. We need to go back to bucket overview to upload over website files. Click “Overview”.

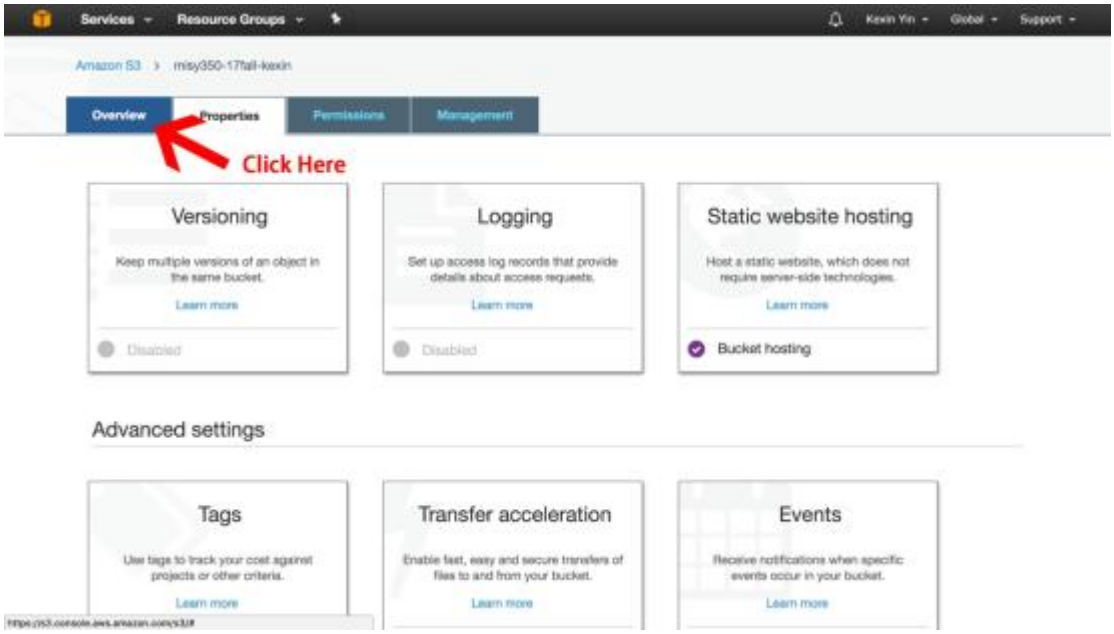

Fig. 25

Now, we are ready to upload website files. Click “Upload”.

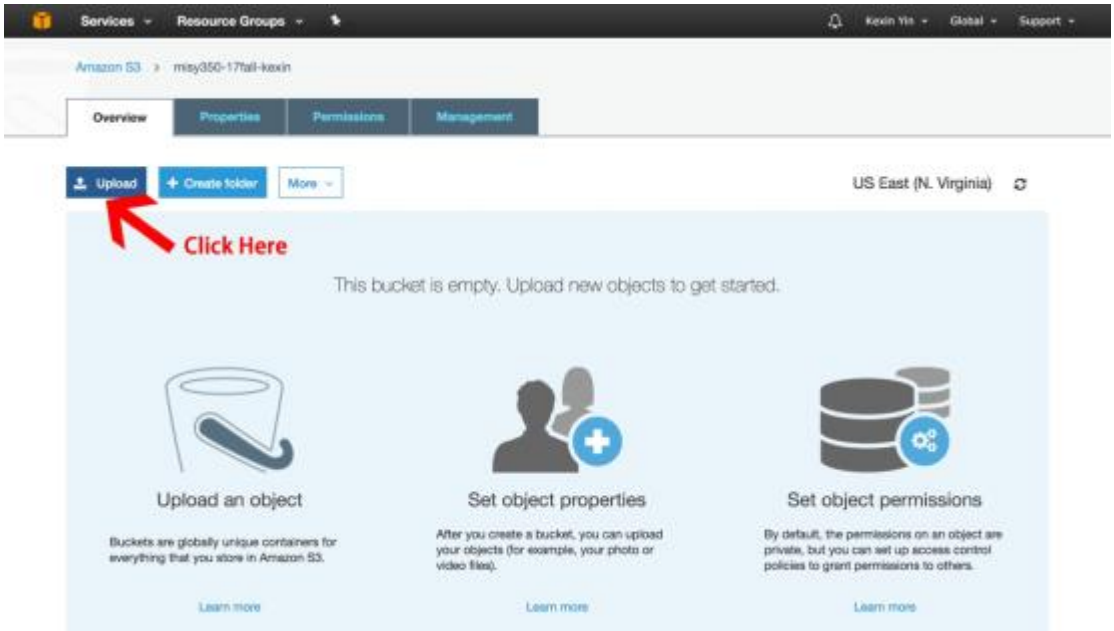

Fig. 26

Drag our website folder like shown in Fig. 27. This drag upload method can only be used in **Google Chrome**, if you are using other web browsers, you need to upload all the files one by one with identical folder names.

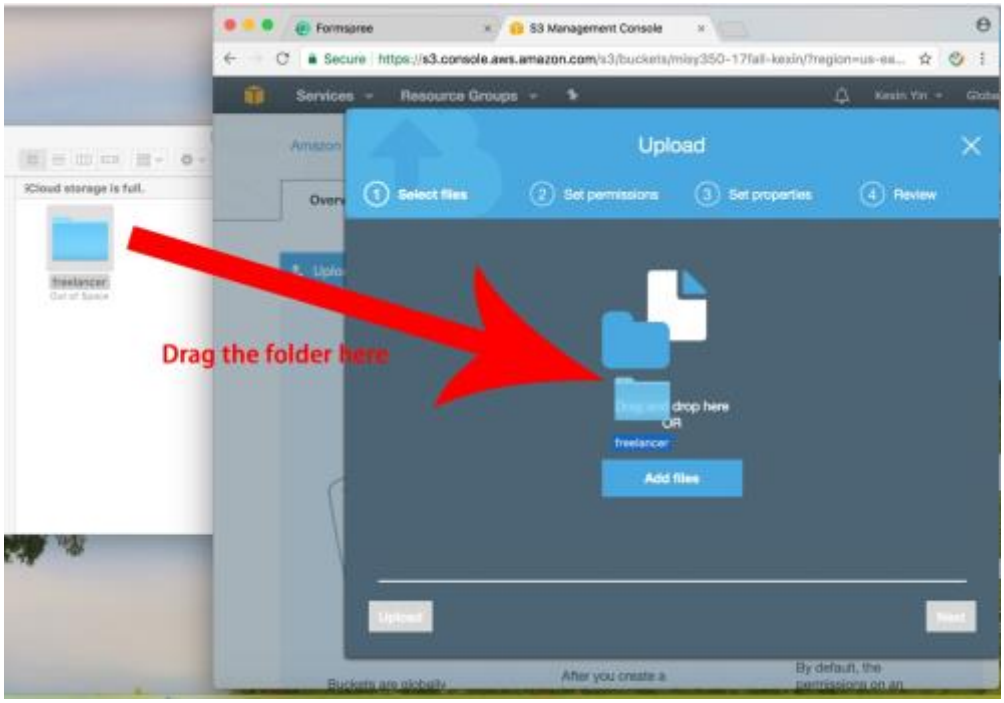

Fig. 27

With your folder dragged in, click next to set permissions.

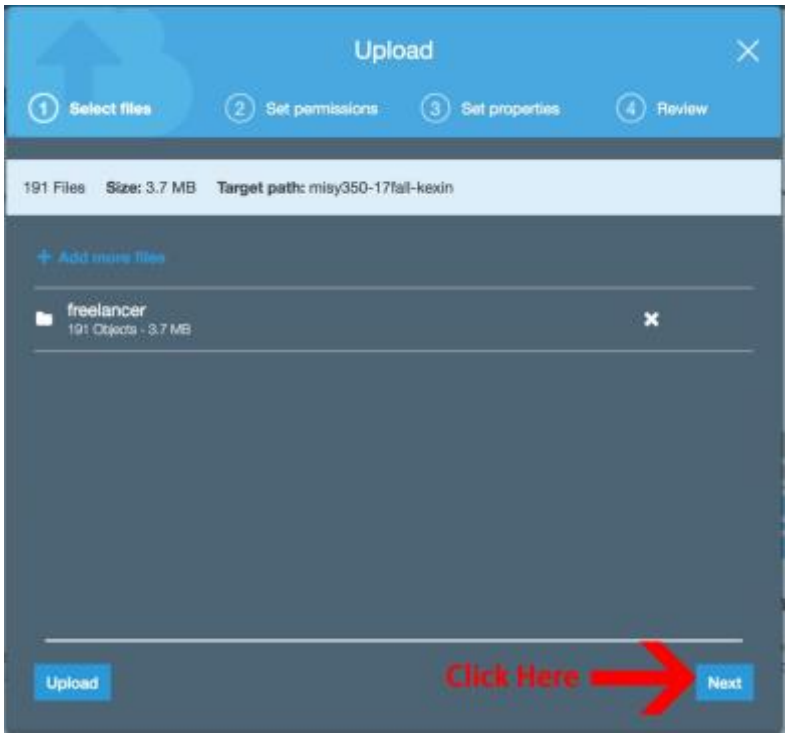

Fig. 28

Again, set the public permissions to be “Grant public read access to this object(s)”. Click next.

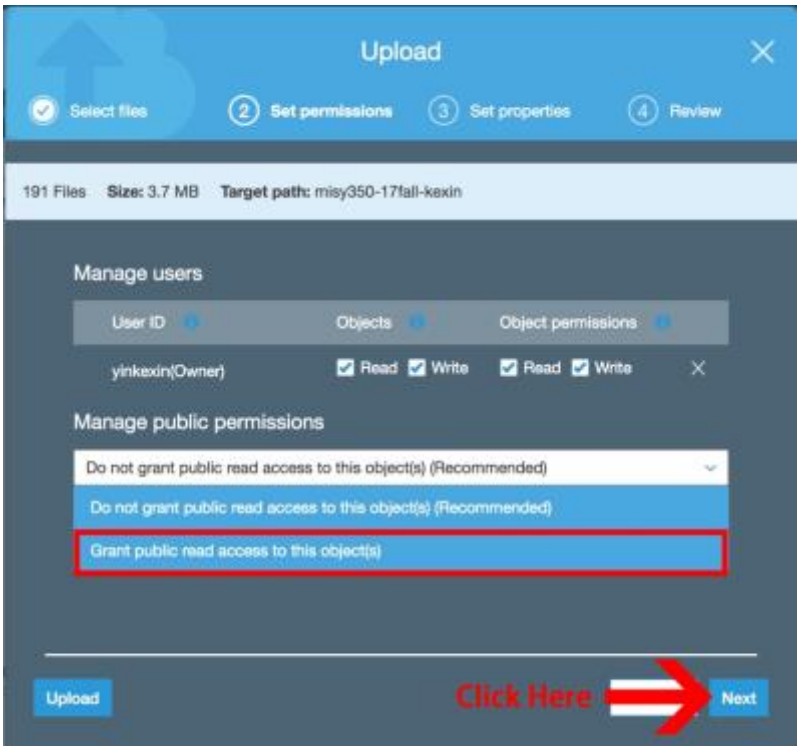

Fig. 29

Leave all the options unchanged in this page, and click next.

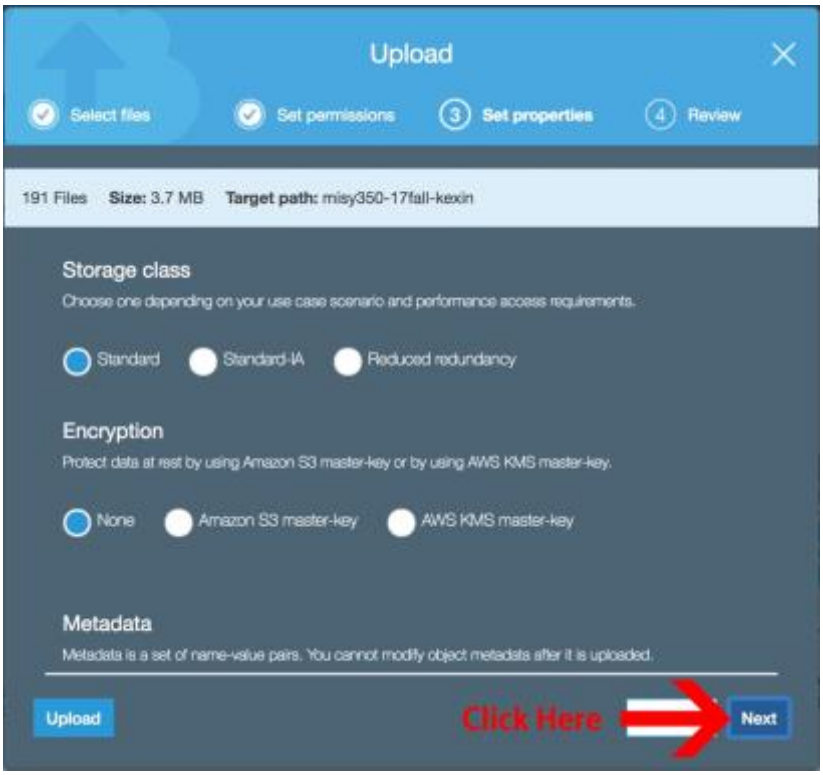

Fig. 30

After reviewing all the settings of your upload process, click “Upload” to finish your uploading. Wait until all the files are uploaded, then click your folder “freelancer”.

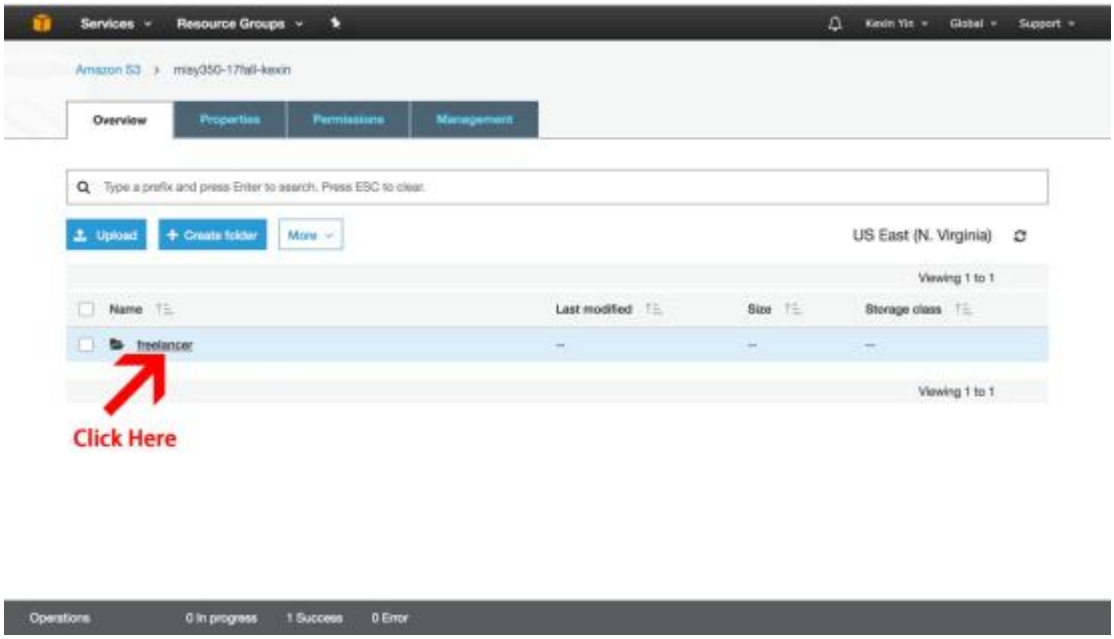

Fig. 31

Then, open index.html.

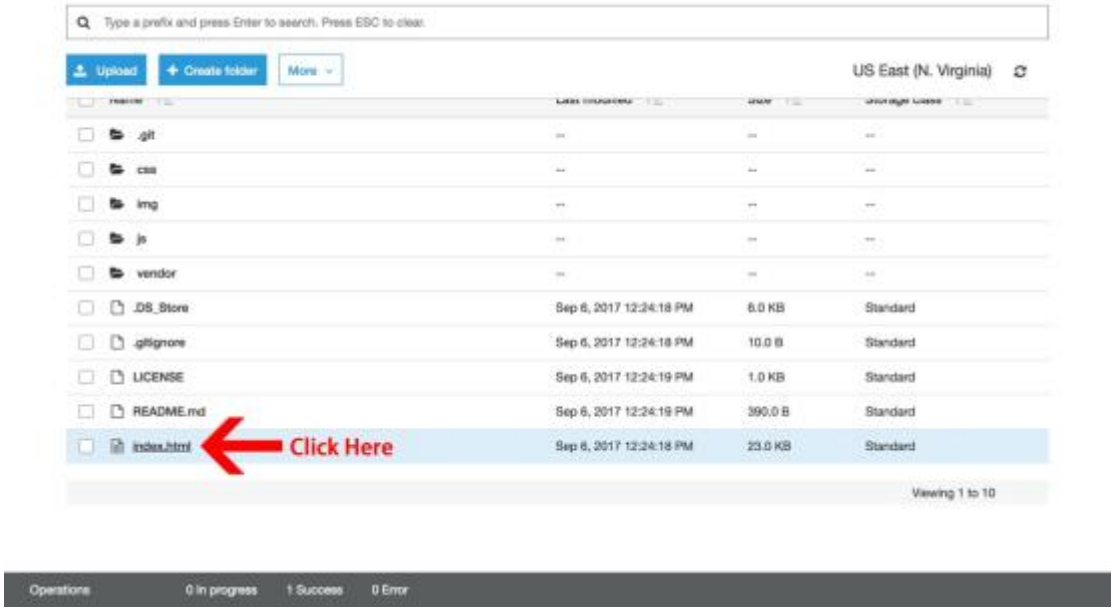

Fig. 32

You will see the information about this html file. There is a URL at the end of all the information. Click this link. What do see?

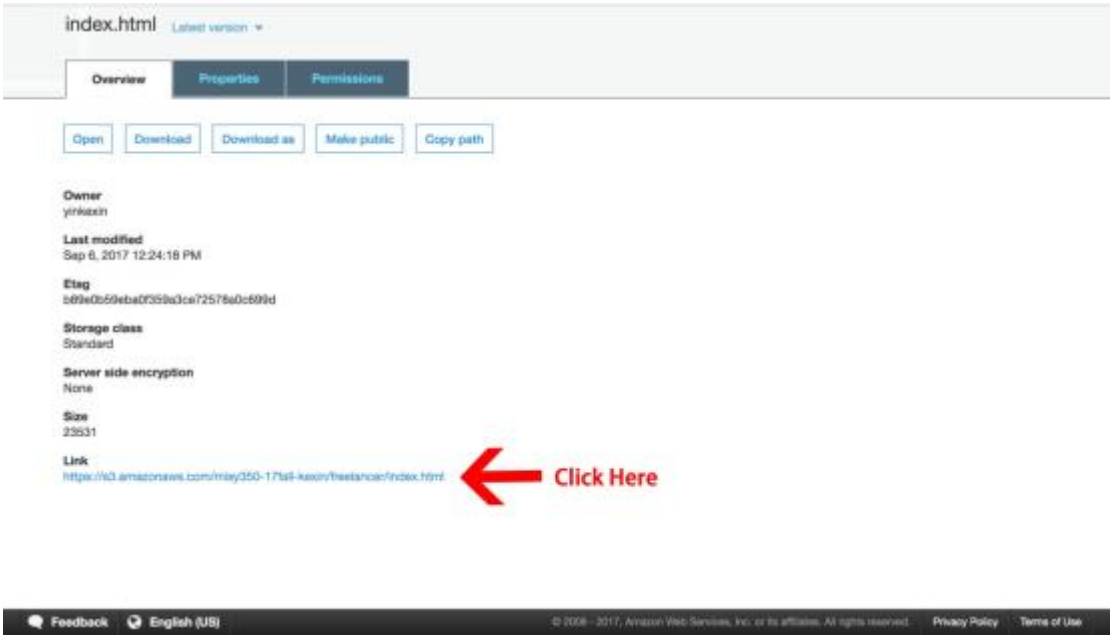

Fig. 33

Congratulations! You just made your first personal website accessible.

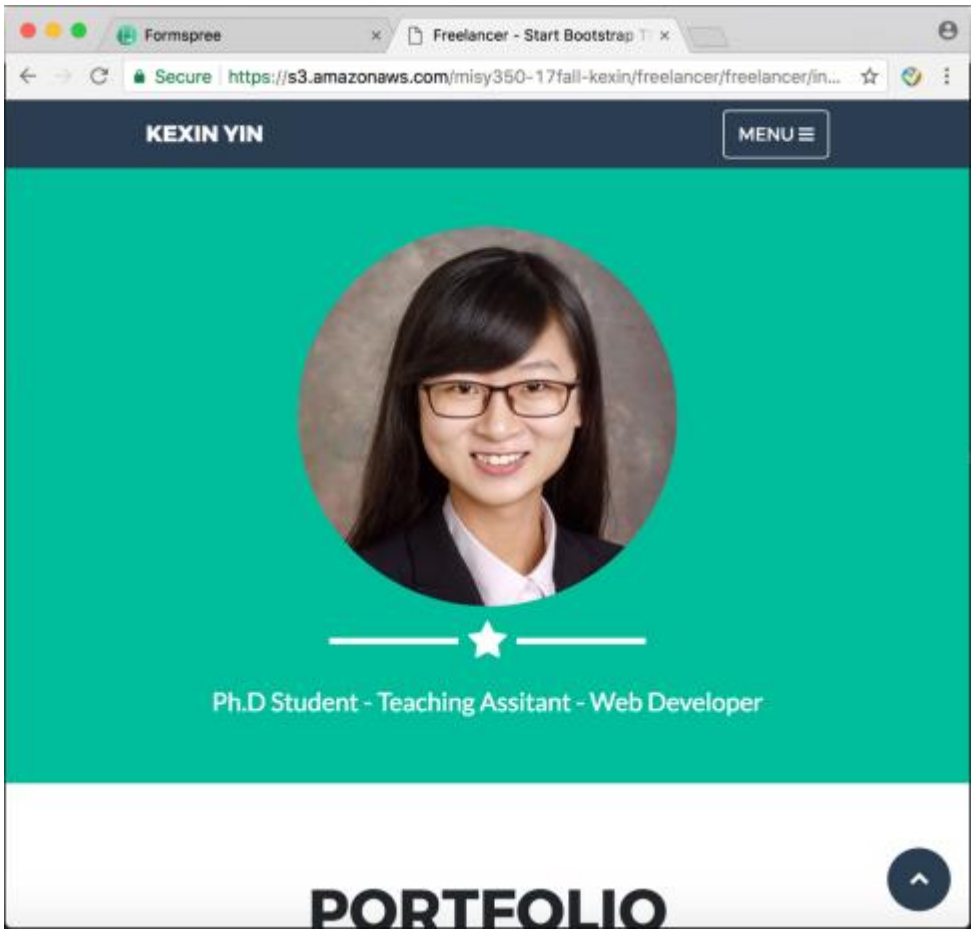

Fig. 34 What you should see with the link