GDSC - WEB workshop

Steps so far

1. Install Node and NPM

Windows

Install through the this site

MacOS

Using Installer

Using HomeBrew:

```
brew install node
```

2. Open terminal

- Windows: Command Prompt/ Power Shell / Terminal
- Mac: Terminal

3. Create Project Folder

enter "npx create-react-app portfolio-demo", this will create a folder called "portfolio-demo"

```
npx create-react-app portfolio-demo
```

4. Go to Project Folder

```
#or the folder name you entered before cd portfolio-demo
```

5. Install bootstrap

```
# Install bootstrap npm install react-bootstrap bootstrap@5.1.3
```

6. Start in localhost

```
#Start your porject in local for development npm start
```

Check if the site is working by this link : http://localhost:3000/

The above link should open automatically in your default browser. If the default browser is not set or it does not open automatically, use the link specified above.
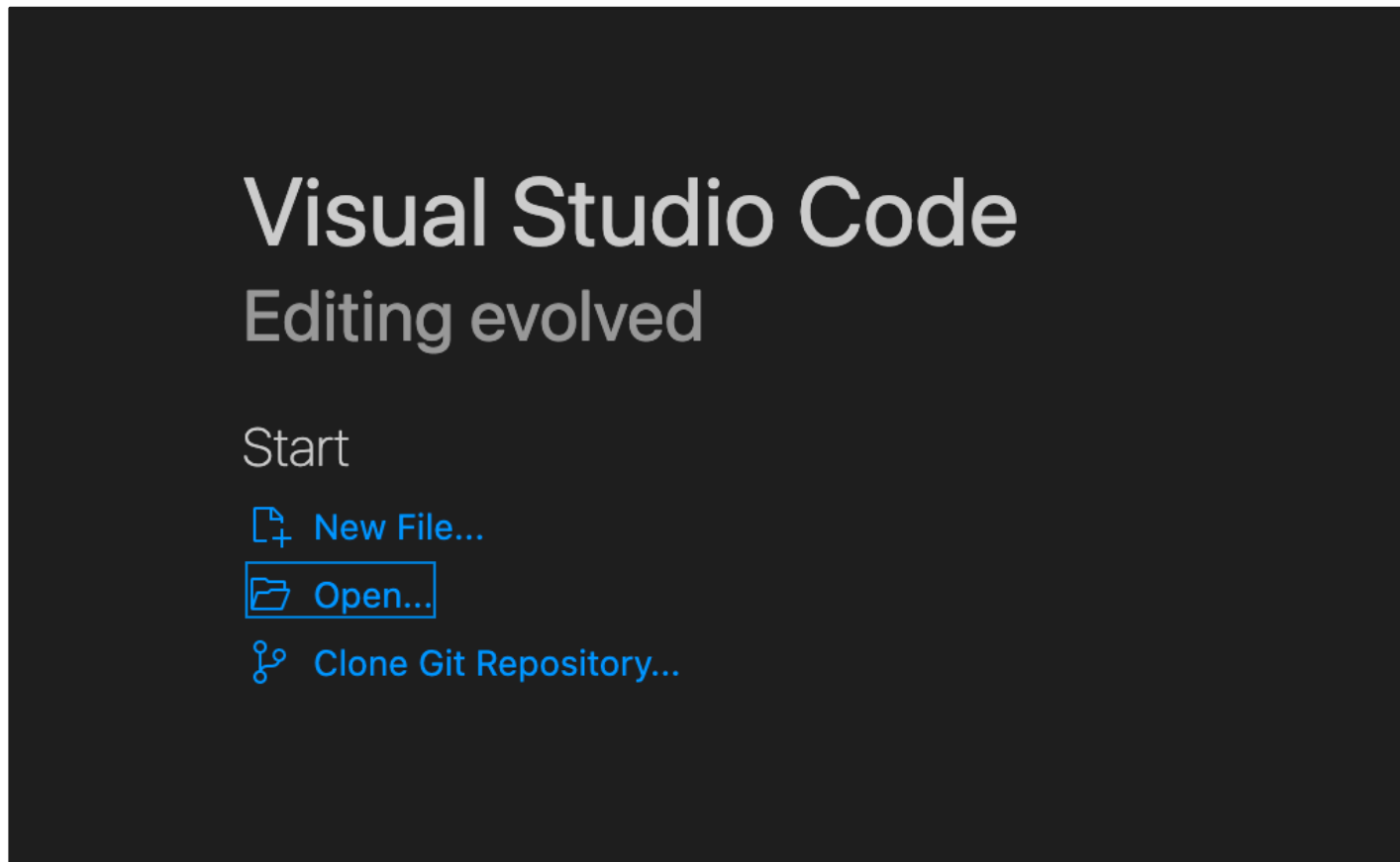
7. Download a code editor or IDE

You may choose to download VScode, Sublime or whatever you want!

8. Hello World!

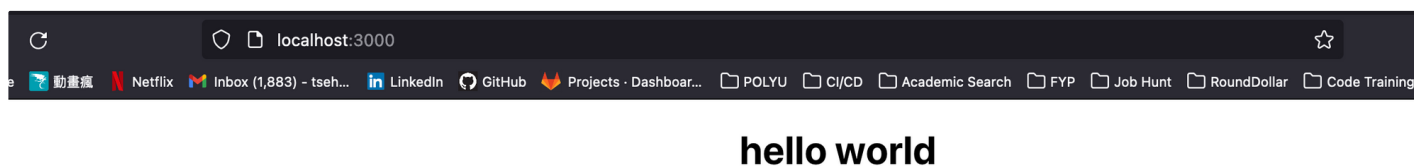Open the editor you have downloaded and open the project folder:

Vscode:

Click "open" to open the project folder

Change the "App.js" file to as below

```
import logo from './logo.svg'; import './App.css'; function App() { return ( <div
className="App"> <h1> Hello World! </h1> </div> ); } export default App;
```

Check http://localhost:3000/ again and see if "Hello World!" comes up like as below

hello world

We will make another change in App.js, and that is to import the bootstrap's CSS, so that we can apply bootstrap stylings to out components.
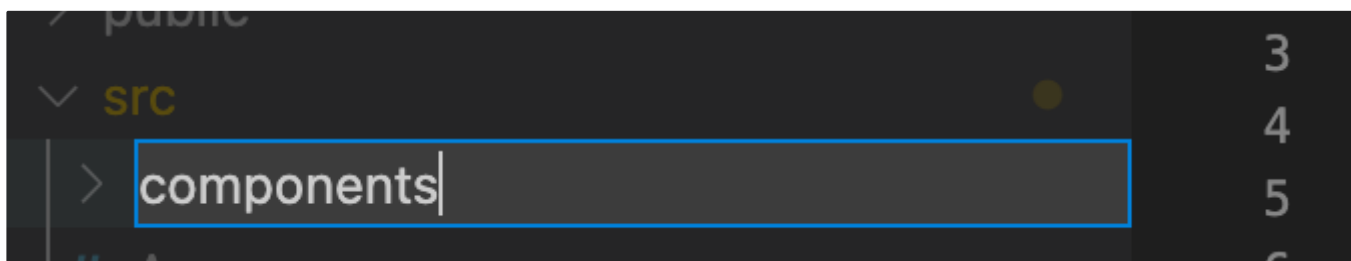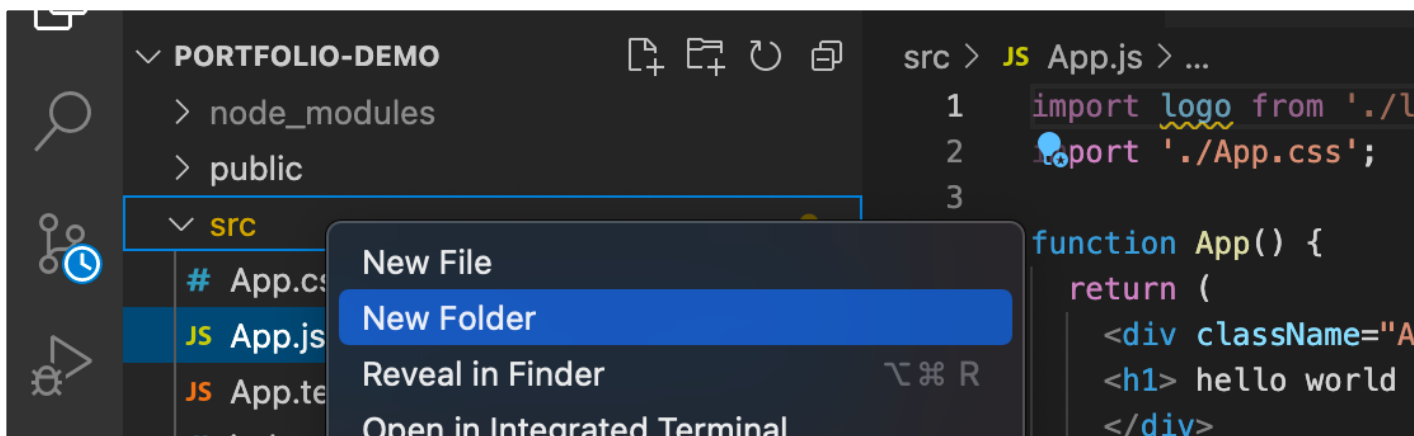
```
import 'bootstrap/dist/css/bootstrap.min.css'; import './App.css'; function App() {
return ( <div className="App"> <h1> Hello World! </h1> </div> ); } export default App;
```

Comparing the changes between the above App.js and this one, we see that we have imported:

```
import 'bootstrap/dist/css/bootstrap.min.css';
```
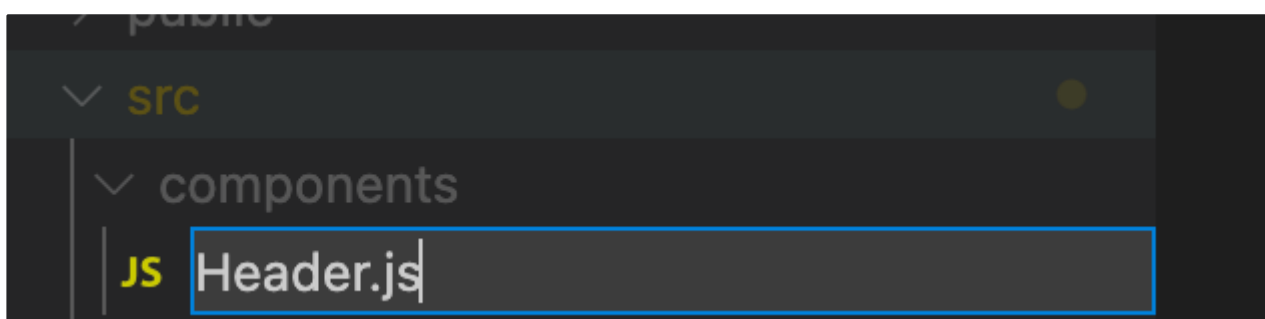
9. Create Components folder

Create a new folder in your editor

This is the folder where different components (or parts) of your webpage will be present.

10. Create Header.js file

Create new file named "Header.js" in your editor

11. Create NavBar in Header.js

```
import React from 'react' import { Navbar, Container, Nav, Button } from 'react-
bootstrap'; const Header = () => { return ( <Navbar bg="dark" expand="lg" sticky="top"
variant="dark" className="py-4" collapseOnSelect> <Container fluid="md"> <Navbar.Brand
href="/portfolio" style={{fontSize:"26px", borderRight:"2px solid grey", padding:"0
10px"}}>Srijan Srivastava</Navbar.Brand> <Navbar.Toggle aria-controls="navbarScroll" />
<Navbar.Collapse id="navbarScroll"> <Nav className="me-auto my-2 my-lg-0" style=
{{padding: "0 10px"}} navbarScroll > <Nav.Link href="#about">About</Nav.Link> <Nav.Link
href="#projects">Projects</Nav.Link> <Nav.Link href="#skills">Skills</Nav.Link> </Nav>
<Button href="#contact" className="d-flex" variant="outline-success" size="md" style=
{{margin: "0 10px", maxWidth: "25vw", justifyContent: "center"}} > Contact Me </Button>
</Navbar.Collapse> </Container> </Navbar> ); }; export default Header;
```

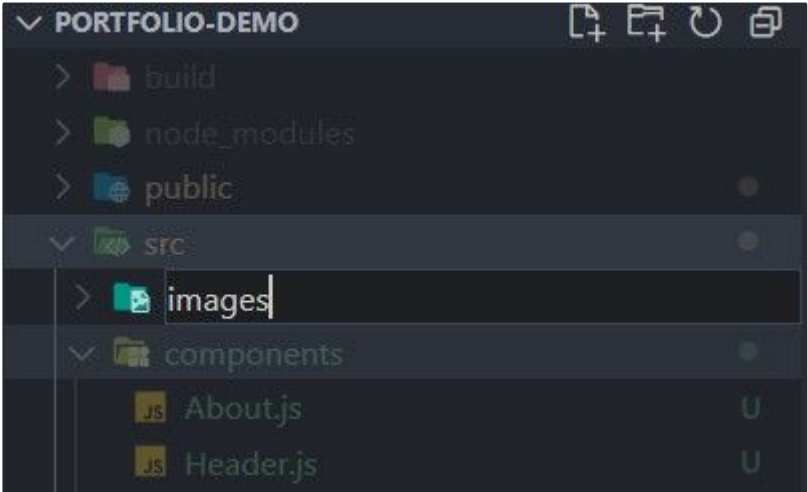## 12. Import the Header in App.js

```
import 'bootstrap/dist/css/bootstrap.min.css'; import './App.css'; import Header from
'./components/Header'; function App() { return ( <main> <Header /> </main> ); } export
default App;
```

Hit CTRL+S or Command+S (mac) to save, and check the site again and it should look like this:

13. Make an images folder

In the src folder of our project, we will now create another folder known as images, where we will save all the images required for the website.
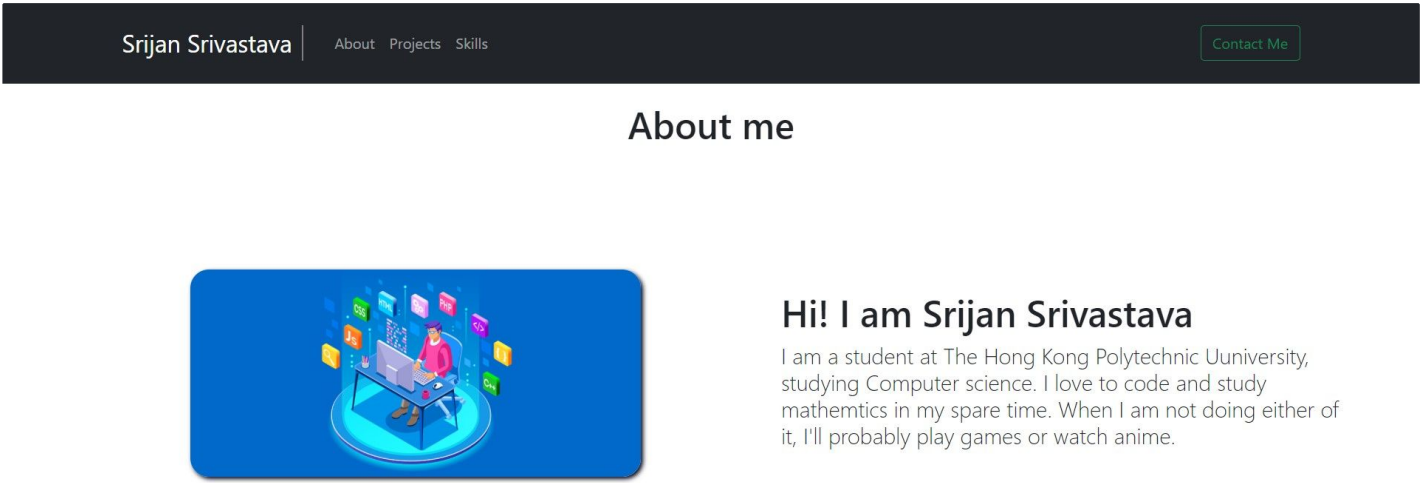

14. Creating the about us section.

I used the following code for the about us section:

```
import React from 'react'; import { Col, Container, Row } from 'react-bootstrap'; import
dev from '../images/dev.png'; const About = () => { return( <Container fluid style=
{{height: "75vh"}} id="about"> <h1 style={{width: "100%", textAlign: "center", margin:
"20px 0"}}>About me</h1> <Row style={{justifyContent: "center", alignItems: "center",
height: "80%"}}> <Col sm={6} md={5} lg={{span: 4, offset: 1}}> <img src={dev}
alt="Software Developer" style={{ width: "100%", boxShadow: "2px 2px 5px #001",
borderRadius: "20px" }} /> </Col> <Col sm={9} md={10} lg={{ span: 5, offset: 1}}>
<h1>Hi! I am Srijan Srivastava</h1> <h4 style={{fontWeight: "300"}}> I am a student at
The Hong Kong Polytechnic Uuniversity, studying Computer science. I love to code and
study mathemtics in my spare time. When I am not doing either of it, I'll probably play
games or watch anime. </h4> </Col> </Row> </Container> ); }; export default About;
```

Make sure to import it into App.js just like you did with Header, as follows:

```
import 'bootstrap/dist/css/bootstrap.min.css'; import './App.css'; import Header from
'./components/Header'; import About from './components/About'; function App() { return (
<main> <Header /> <About /> </main> ); } export default App;
```

In this section we are doing any fancy bootstrap function. We are just utilizing the layout so that our About Us section might look as follows after we save the above code:

I downloaded the above image from Google Images, named it dev.png, and imported it for use.

Also, to read more about how the layout is done in Bootstrap, go to their Grid Documentation.

Make sure you have idea of what Flexbox is.

Give yourself a pat, you just completed two sections of your webpage.

15. Creating the Projects section

For showcasing our projects, we will use the <u>Card component</u> provided by bootstrap.
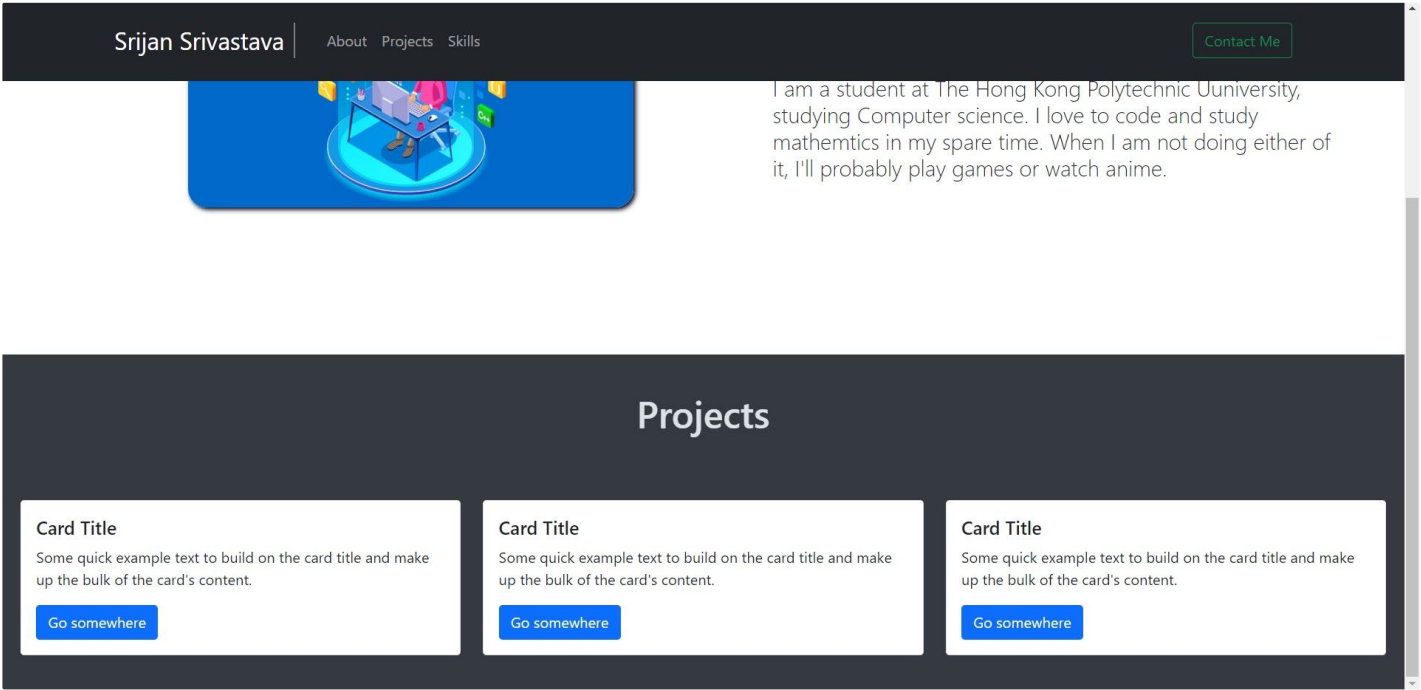
We will create another component in components folder called Projects.js. We will write the following code:

```
import React from 'react'; import { Button, Card, Col, Container, Row } from 'react-
bootstrap'; const Projects = () => { return( <Container fluid id="projects" style=
{{backgroundColor: "#343a40", padding: "20px"}}> <h1 style={{width: "100%", textAlign:
"center", marginBottom: "50px", marginTop: "20px", color: "#dee2e6"}}>Projects</h1> <Row
style={{justifyContent: "center", alignItems: "center", height: "100%"}}> <Col sm={12}
md={6} lg={4}> <Card style={{ width: '100%' }}> <Card.Body> <Card.Title>Card
Title</Card.Title> <Card.Text> Some quick example text to build on the card title and
make up the bulk of the card's content. </Card.Text> <Button variant="primary">Go
somewhere</Button> </Card.Body> </Card> </Col> <Col sm={12} md={6} lg={4}> <Card style=
{{ width: '100%', margin: "20px 0" }}> <Card.Body> <Card.Title>Card Title</Card.Title>
<Card.Text> Some quick example text to build on the card title and make up the bulk of
the card's content. </Card.Text> <Button variant="primary">Go somewhere</Button>
</Card.Body> </Card> </Col> <Col sm={12} md={6} lg={4}> <Card style={{ width: '100%' }}>
<Card.Body> <Card.Title>Card Title</Card.Title> <Card.Text> Some quick example text to
build on the card title and make up the bulk of the card's content. </Card.Text> <Button
variant="primary">Go somewhere</Button> </Card.Body> </Card> </Col> </Row> </Container>
); }; export default Projects;
```

Make sure to save it and import it in App.js as follows:

```
import 'bootstrap/dist/css/bootstrap.min.css'; import './App.css'; import Header from
'./components/Header'; import About from './components/About'; import Projects from
'./components/Projects'; function App() { return ( <main> <Header /> <About /> <Projects
/> </main> ); } export default App;
```

Our webpage will now look as follows:
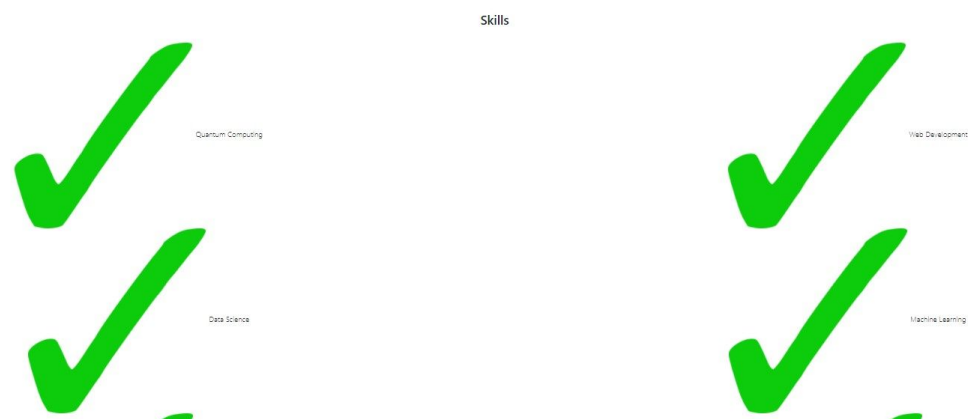

16. Creating the Skill section.

For the skill section, let us do something different, we will write the following code for our Skill section in the Skill.js file in components folder under src:

```
import React from 'react'; import { Container, Col, Row } from 'react-bootstrap'; import
tick from '../images/tick.png'; const Skills = () => { return( <Container fluid
id="skills" style={{padding: "20px"}}> <h1 style={{width: "100%", textAlign: "center",
marginBottom: "50px", marginTop: "20px"}}>Skills</h1> <Row style={{justifyContent:
"center", alignItems: "center", height: "100%"}}> <Col sm={12} md={6} lg={6} style=
{{display: 'flex', justifyContent: 'center', alignItems: 'center'}}> <div
className='skill'> <img src={tick} alt="Proficient in " className='tick'/> <h4 style=
{{display: 'inline-block', fontWeight: '300', margin: '0 10px'}}>Quantum Computing</h4>
</div> </Col> <Col sm={12} md={6} lg={6} style={{display: 'flex', justifyContent:
'center', alignItems: 'center'}}> <div className='skill'> <img src={tick}
alt="Proficient in " className='tick'/> <h4 style={{display: 'inline-block', fontWeight:
'300', margin: '0 10px'}}>Web Development</h4> </div> </Col> </Row> <Row> <Col sm={12}
md={6} lg={6} style={{display: 'flex', justifyContent: 'center', alignItems: 'center'}}>
<div className='skill'> <img src={tick} alt="Proficient in " className='tick'/> <h4
style={{display: 'inline-block', fontWeight: '300', margin: '0 10px'}}>Data Science</h4>
</div> </Col> <Col sm={12} md={6} lg={6} style={{display: 'flex', justifyContent:
'center', alignItems: 'center'}}> <div className='skill'> <img src={tick}
alt="Proficient in " className='tick'/> <h4 style={{display: 'inline-block', fontWeight:
'300', margin: '0 10px'}}>Machine Learning</h4> </div> </Col> </Row> <Row> <Col sm={12}
md={6} lg={6} style={{display: 'flex', justifyContent: 'center', alignItems: 'center'}}>
<div className='skill'> <img src={tick} alt="Proficient in " className='tick'/> <h4
style={{display: 'inline-block', fontWeight: '300', margin: '0 10px'}}>Software
Engineering</h4> </div> </Col> <Col sm={12} md={6} lg={6} style={{display: 'flex',
justifyContent: 'center', alignItems: 'center'}}> <div className='skill'> <img src=
{tick} alt="Proficient in " className='tick'/> <h4 style={{display: 'inline-block',
fontWeight: '300', margin: '0 10px'}}>DevOps</h4> </div> </Col> </Row> </Container> );
}; export default Skills;
```

Don't forget to add it into App.js:

```
import 'bootstrap/dist/css/bootstrap.min.css'; import './App.css'; import Header from
'./components/Header'; import About from './components/About'; import Projects from
'./components/Projects'; import Skills from './components/Skills'; function App() {
return ( <main> <Header /> <About /> <Projects /> <Skills /> </main> ); } export default
App;
```

But even after writing such flawless code, our webpage looks like this:

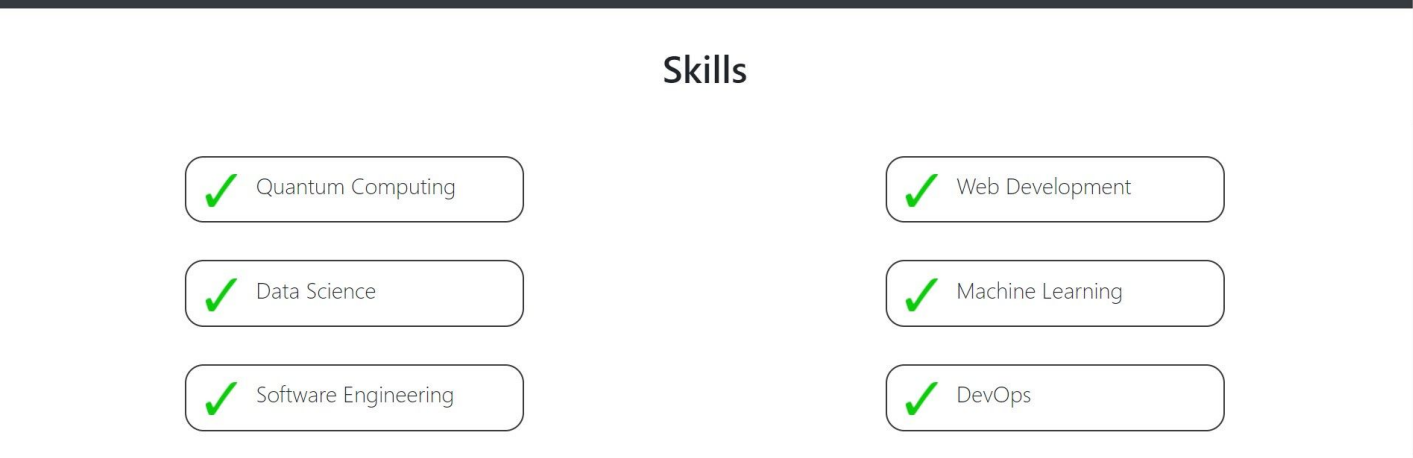

I had to zoom out to show the bog ticks.

So, this is something that we have to fix. In order to do that, we create a new file in the components folder called skills.css as follows:

```
.tick { display: inline; width: 10%; height: auto; margin: 0 10px; } .skill { margin:
20px 0; width: 50%; /* height: 80%; */ /* text-align: center; */ display: inline-block;
padding: 15px 10px; border: 2px solid #3a3a40; border-radius: 20px; cursor: pointer;
transition: all 0.5s; } .skill:hover { box-shadow: 2px 2px 10px #3a3a40; transform:
scale(1.1); } @media screen and (max-width: 576px) { .skill { width: 85%; } }
```

We import it into our Skills.js as follows:

```
import React from 'react'; import { Container, Col, Row } from 'react-bootstrap'; import
tick from '../images/tick.png'; import './skills.css'; // <-- note this step to import
your own CSS /* ******************************* REST OF THE Skills.js CODE
******************************* */
```

So we just add one line into our JS, and few lines in our CSS file and our website is fixed:

Skills

✓ Quantum Computing	✓ Web Development
✓ Data Science	✓ Machine Learning
✓ Software Engineering	✓ DevOps

We also added a magic when you hover over it. Try it yourself.

17. Adding our Social Media for contact.

In order to add our social media links, we will first download the package, react-social-icons. Install it by running following command in your terminal:

```
npm install react-social-icons
```

After the package is installed, create a file in components folder called ContactMe.js as follows:
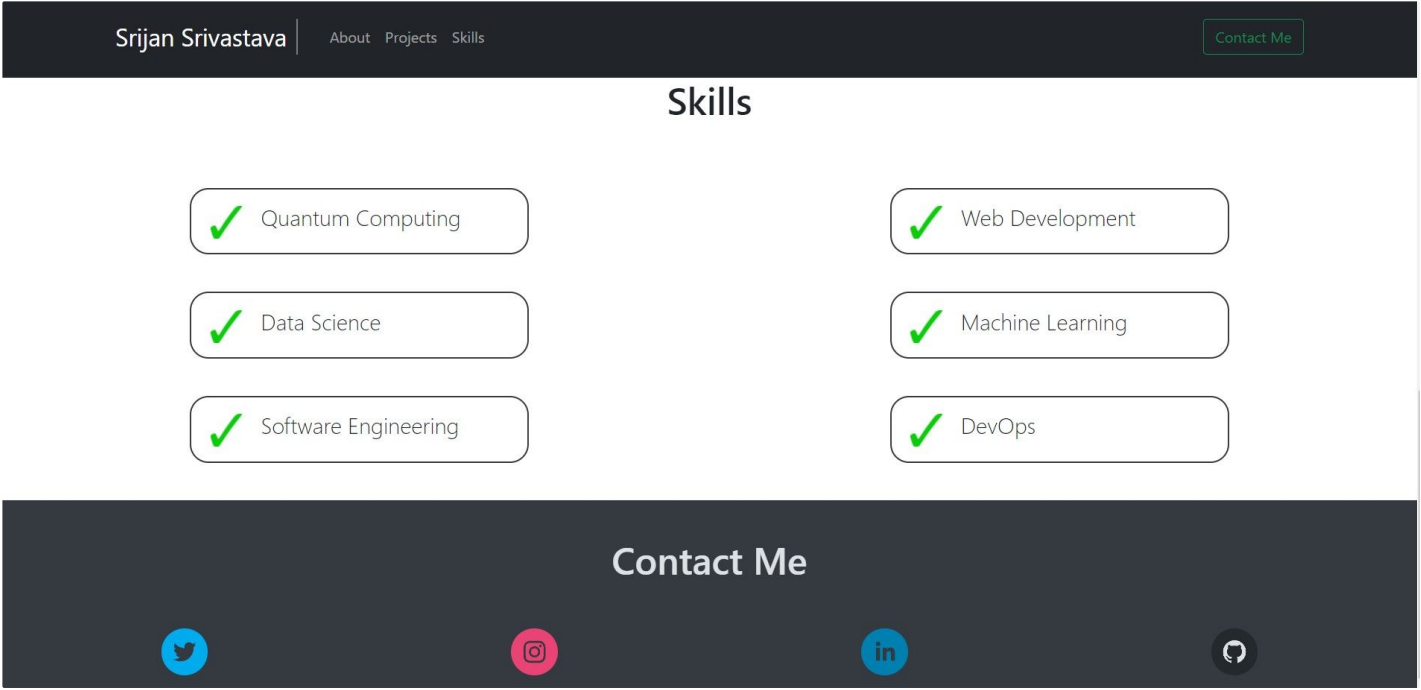
```
import React from 'react'; import { Col, Container, Row } from 'react-bootstrap'; import
{ SocialIcon } from 'react-social-icons'; const ContactMe = () => { return( <Container
fluid id='contact' style={{backgroundColor: "#343a40", padding: "20px"}}> <h1 style=
{{width: "100%", textAlign: "center", marginBottom: "50px", marginTop: "20px", color:
"#dee2e6"}}>Contact Me</h1> <Row style={{justifyContent: "center", alignItems: "center",
height: "100%"}}> <Col sm={6} md={3} lg={3} style={{display: 'flex', justifyContent:
'center'}}> <SocialIcon url='https://twitter.com/_sarcasticCoder' /> </Col> <Col sm={6}
md={3} lg={3} style={{display: 'flex', justifyContent: 'center'}}> <SocialIcon
url='https://www.instagram.com/_sarcastic_coder/' /> </Col> <Col sm={6} md={3} lg={3}
style={{display: 'flex', justifyContent: 'center'}}> <SocialIcon
url='https://www.linkedin.com/in/srijan-srivastava-a66047196/' /> </Col> <Col sm={6} md=
{3} lg={3} style={{display: 'flex', justifyContent: 'center'}}> <SocialIcon
url='https://github.com/SSdevelop' fgColor="#dee2e6" /> </Col> </Row> </Container> ); };
export default ContactMe;
```

Make sure to replace the links with your social media links. You do not want recruiters to recruit me instead of me do you? 🙂.

Also make sure to import it in App.js as:

```
import 'bootstrap/dist/css/bootstrap.min.css'; import './App.css'; import Header from
'./components/Header'; import About from './components/About'; import Projects from
'./components/Projects'; import Skills from './components/Skills'; import ContactMe from
'./components/ContactMe'; function App() { return ( <main> <Header /> <About />
<Projects /> <Skills /> <ContactMe /> </main> ); } export default App;
```
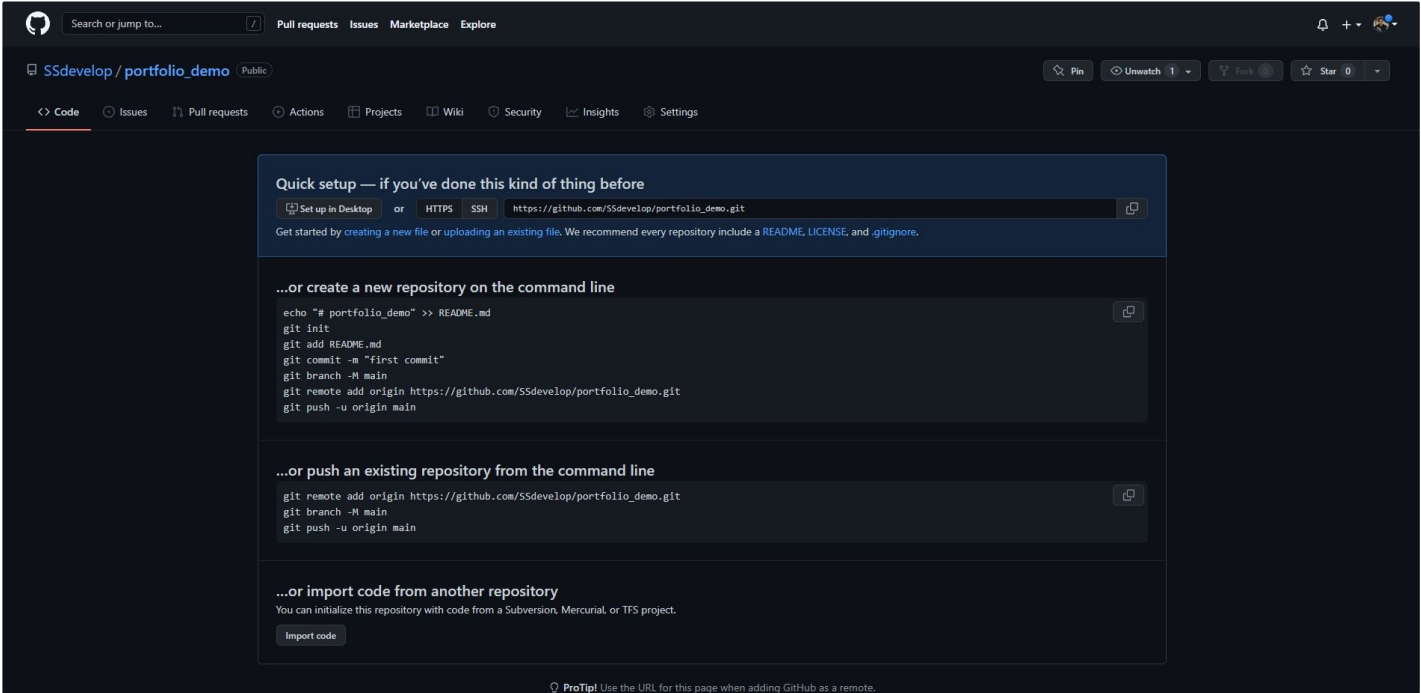
Now, our webpage looks like this:

Great, now we have completed our webpage. Now we are ready to publish it.

18. Publishing the Web page

1. Installing gh-pages

```
npm install gh-pages --save-dev
```

2. Set up an empty Github Repository from the github website. Name it **portfolio-demo.**
   Make sure it does not contain any Readme.md file. After doing that, it should look like this:

3. Now in the project folder open the terminal (for windows it will look as follows):

Now write the following command to set up your git:

```
git init git remote add origin https://github.com/SSdevelop/portfolio_demo.git
```

In the above command, replace the url with the URL assigned to your repository. This can be copied from the Quick-Setup tab from the Github Repository Image above.

4. Now, we add some commands to the package.json file.
   First, add a homepage tag in the package.json file:

The general format of the link is: `https://{YOUR GITHUB USERNAME IN LOWERCASE}.github.io/{YOUR REPOSITORY NAME}`

Next, inside the script section of the package.json, we add `"predeploy": "npm run build",` and `"deploy": "gh-pages -d build"`
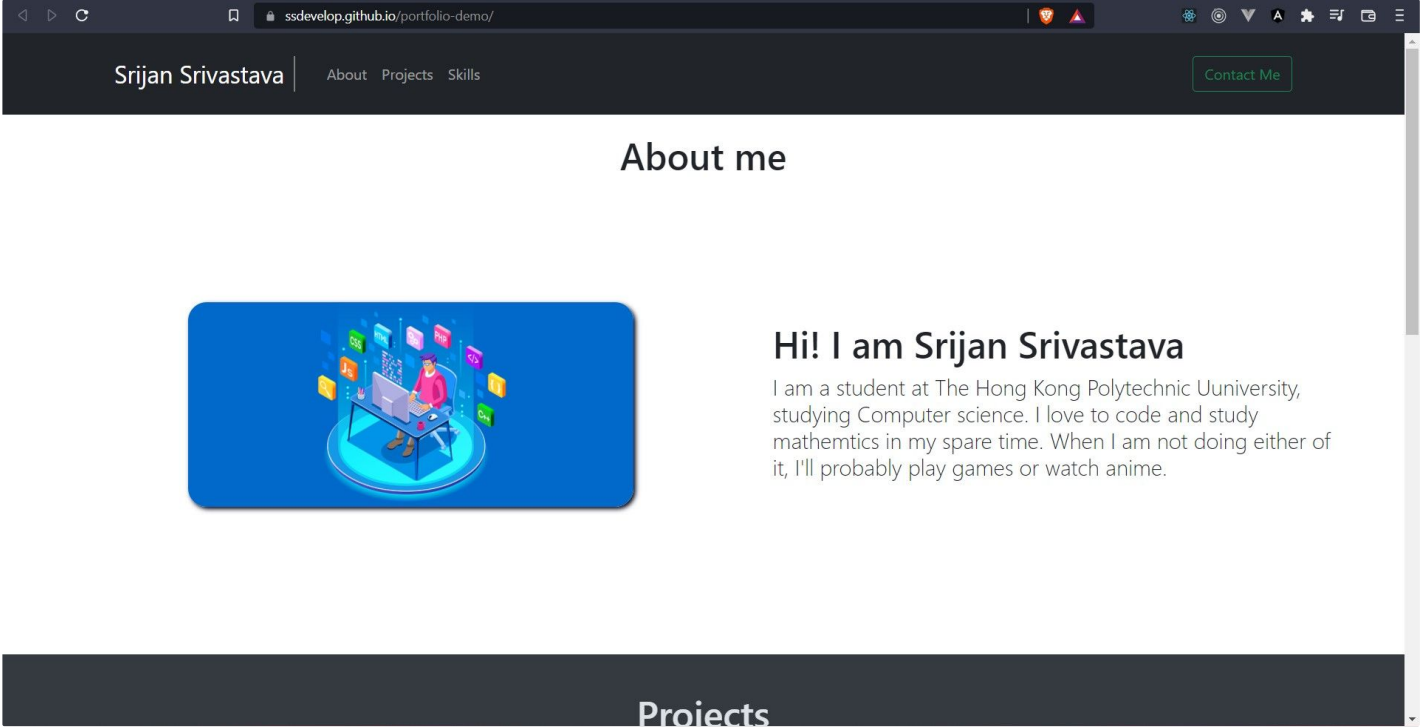
Now, our script tag will look as follows:

5. Now we can deploy our app by running the following command in terminal:

```
npm run deploy
```

Give GitHub 5-10 minutes to deploy and use the link `https://{YOUR GITHUB USERNAME IN LOWERCASE}.github.io/{YOUR REPOSITORY NAME}` to access your website as follows:

Congratulations!!! 🎉🎉 You have successfully deployed your first website. Now, there are several ways you can improve on it. For example you can copy the website: Full Stack Web Developer. You should also open My original Portfolio in your laptop and hit CTRL+P or Command+P. My webpage will link you to my CV (old CV). Try to mimic that feature. Nevertheless, you guys did a wonderful job on creating and deploying your new React Portfolio.

For any help, do not hesitate to post questions in group or DM me on discord/whatsapp.

Happy Codding!! 😊

import 'bootstrap/dist/css/bootstrap.min.css';

import './App.css';

import Header from './components/Header';

import About from './components/About';

import Projects from './components/Projects';

function App() {

return (

```
<main>
<Header />
<About />
<Projects />
</main>
);
}
export default App;
```