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## IT254 Lab Assignment 5

Q1. Write a JavaScript program to create a progress bar that updates its width based on task completion.

Code

I have taken the mouse event of scrolling to be the task of completion ....so more you scroll the progress bar increases...

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="style.css">
  <title>Document</title>
</head>
<body>
  <div class="container">
    <div class="progress"></div>
  </div>
  <div class="text"></div>
</body>
<script src="script.js"></script>
</html>
```

style.css

```

body {
  width: 100vw;
  height: 90vh;
  display: flex;
  flex-direction: column;
  justify-content: center;
  align-items: center;
  background-color: black;
}
.container {
  width: 90%;
  background-color: rgb(214, 207, 207);
  height: 10px;
  border-radius: 10px;
  display: flex;
  align-items: center;
  padding: 2px;
}
.text {
  color: white;
}
.progress {
  height: 60%;
  background-color: rgb(255, 30, 30);
  width: 0%;
  border-radius: 10px;
  transition: all 1s;
}

```

script.js

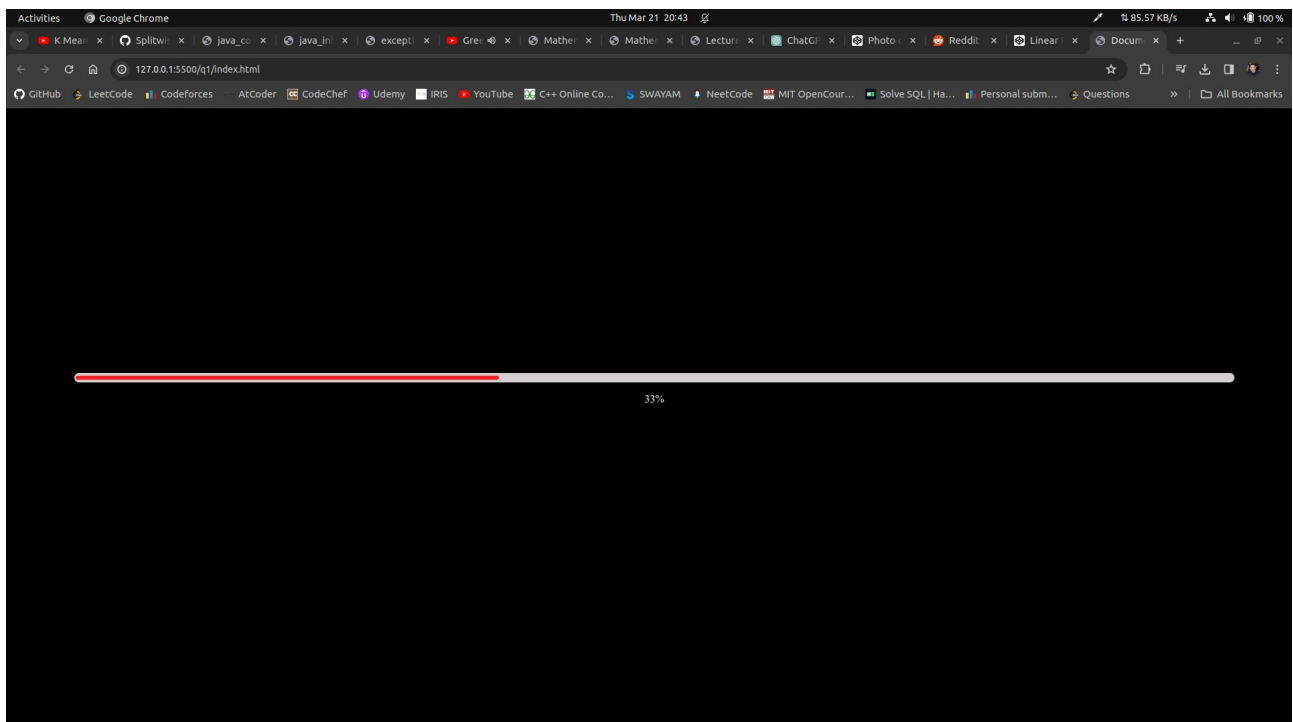
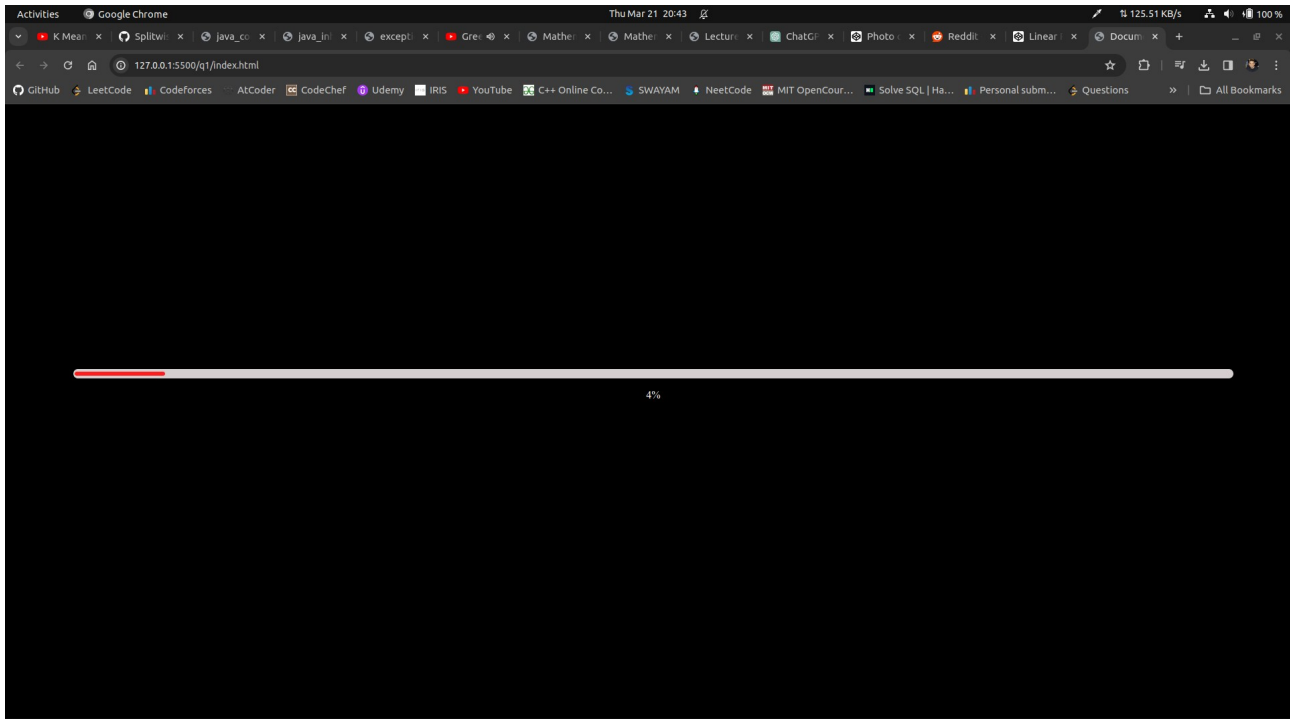
```

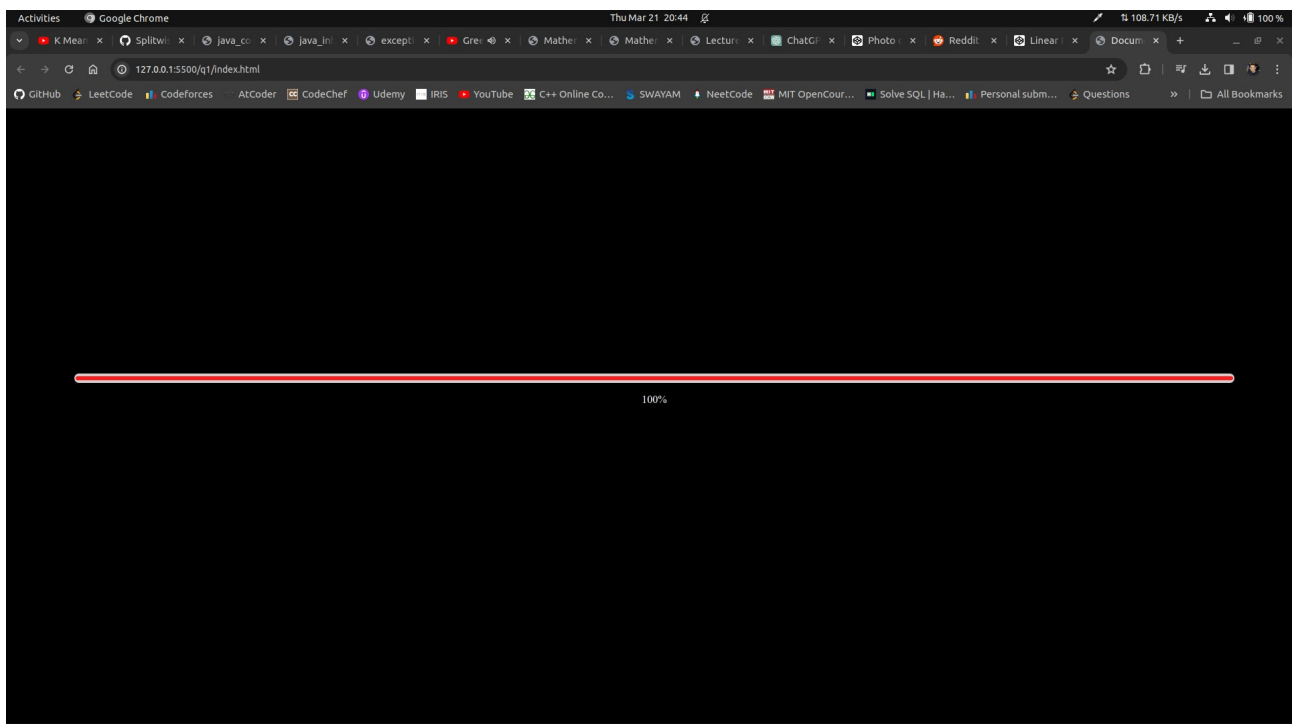
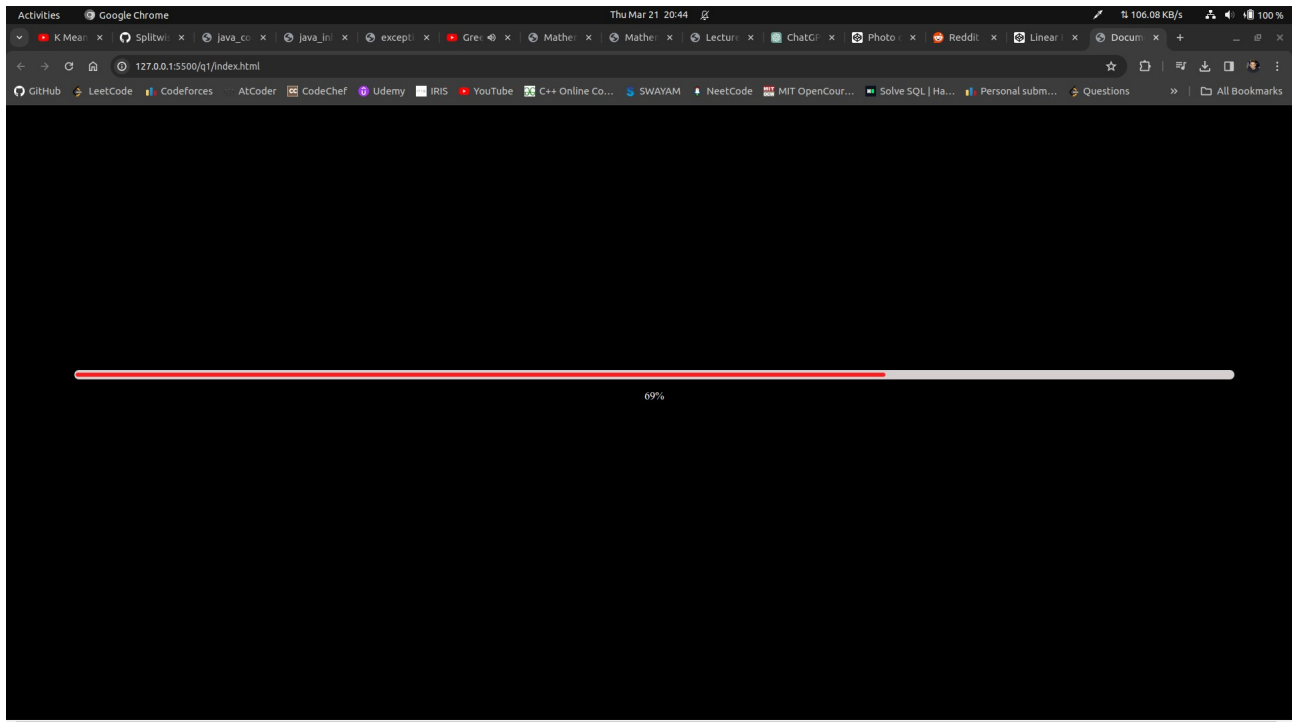
let cnt = 0;
let per = 0;
red = setInterval(() => {
  let bar = document.querySelector(".progress");
  let percentage = setInterval(() => {
    per += 1;
    if (per >= cnt) clearInterval(percentage);
    document.querySelector(".text").innerHTML = `<p>${per}%</p>`;
  }, 100);
  cnt += 10;

  if (cnt == 100) clearInterval(red);
  bar.style.width = cnt + "%";
  console.log(cnt);
}, 1000);

```

# OUTPUT





Q2.Create a webpage containing 3 overlapping images using HTML, CSS and JS. Further, when the mouse is over any image, it should be on the top and fully displayed.

Code

index.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <link rel="stylesheet" href="style.css">
7   <title>Document</title>
8 </head>
9 <body>
10   <div class="container collage1">
11     <div class="container collage2">
12       <div class="grid-container">
13         <div class="item item2">
14           
15         </div>
16         <div class="item item3">
17           
18         </div>
19         <div class="item item6">
20           
21         </div>
22       </div>
23     </div>
24   </div>
25 </body>
</html>
```

style.css

styles.css / .grid-container > move

```
* {
  box-sizing: border-box;
  margin: 0px;
  padding: 0px;
}

img {
  width: 100%;
  height: 100%;
  -o-object-fit: cover;
  object-fit: cover;
}

.container {
  display: flex;
  justify-content: center;
  align-items: center;
  width: 100%;
  padding: 20px 20px;
}

.grid-container {
  margin: auto;
  max-width: 600px;
  aspect-ratio: 1/1;
  display: grid;
  grid-template-columns: repeat(16, 1fr);
  grid-template-rows: repeat(16, 1fr);
}

.collage1 {
  background: linear-gradient(135deg, ■ rgb(249, 110, 151) 0%, ■ rgb(144, 0, 62) 100%);
}

.collage1 .item {
  border: 5px solid ■ white;
}

.collage2 {
  background: linear-gradient(135deg, ■ rgb(255, 255, 255) 0%, ■ rgb(145, 145, 145) 100%);
}

.collage2 .item {
  border: 5px solid ■ black;
}

.item {
  border-radius: 50%;
  overflow: hidden;
  box-shadow: ■ rgba(0, 0, 0, 0.5) 10px 10px 10px 0px;
}
```

```
styleless > collage2.item
.collage2 {
  background: linear-gradient(135deg, ■rgb(255, 255, 255) 0%, ■rgb(145, 145, 145) 100%);
}
.collage2 .item {
  border: 5px solid ■black;
}

.item {
  border-radius: 50%;
  overflow: hidden;
  box-shadow: ■rgba(0, 0, 0, 0.5) 10px 10px 10px 0px;
}

.item1 {
  z-index: 10;
  grid-area: 1/6/5/10;
}
.item2 {
  z-index: 6;
  grid-area: 5/1/11/7;
}
.item3 {
  z-index: 5;
  grid-area: 4/6/11/13;
}
.item4 {
  grid-area: 2/-1/8/-7;
}
.item5 {
  z-index: 10;
  grid-area: 7/-3/10/-6;
}
.item6 {
  z-index: 6;
  grid-area: -1/3/-9/11;
}
.item7 {
  z-index: 6;
  grid-area: -3/-2/-9/-8;
}

.grid-container > * {
  transition: all 0.5s;
}
.grid-container > *:hover {
  z-index: 99;
  transform: scale(1.3);
}
```



# script.js

```
js / <script> // homepage.js / </script> toggleNavbar
'use strict';

/**
 * add Event on elements
 */

const addEventOnElem = function (elem, type, callback) {
  if (elem.length > 1) {
    for (let i = 0; i < elem.length; i++) {
      elem[i].addEventListener(type, callback);
    }
  } else {
    elem.addEventListener(type, callback);
  }
}

/**
 * navbar toggle
 */

const navbar = document.querySelector("[data-navbar]");
const navTogglers = document.querySelectorAll("[data-nav-toggler]");
const navbarLinks = document.querySelectorAll("[data-nav-link]");
const overlay = document.querySelector("[data-overlay]");

const toggleNavbar = function () {
  navbar.classList.toggle("active");
  overlay.classList.toggle("active");
}

addEventOnElem(navTogglers, "click", toggleNavbar);

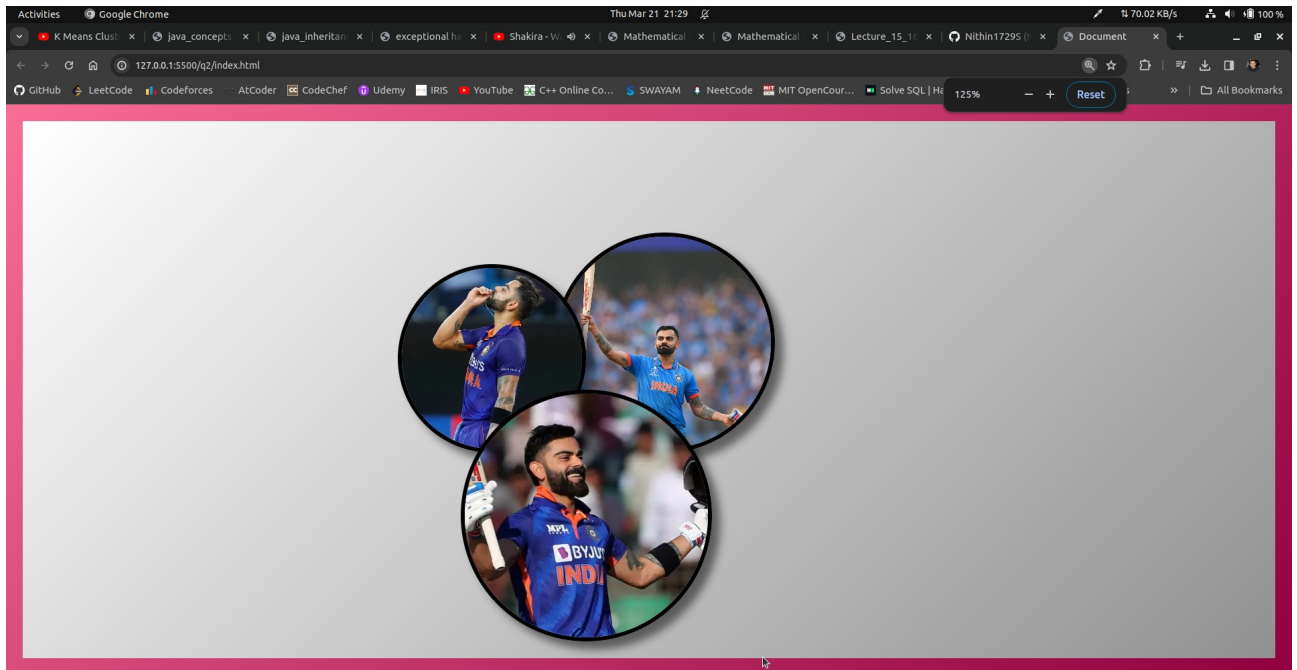
const closeNavbar = function () {
  navbar.classList.remove("active");
  overlay.classList.remove("active");
}

addEventOnElem(navbarLinks, "click", closeNavbar);

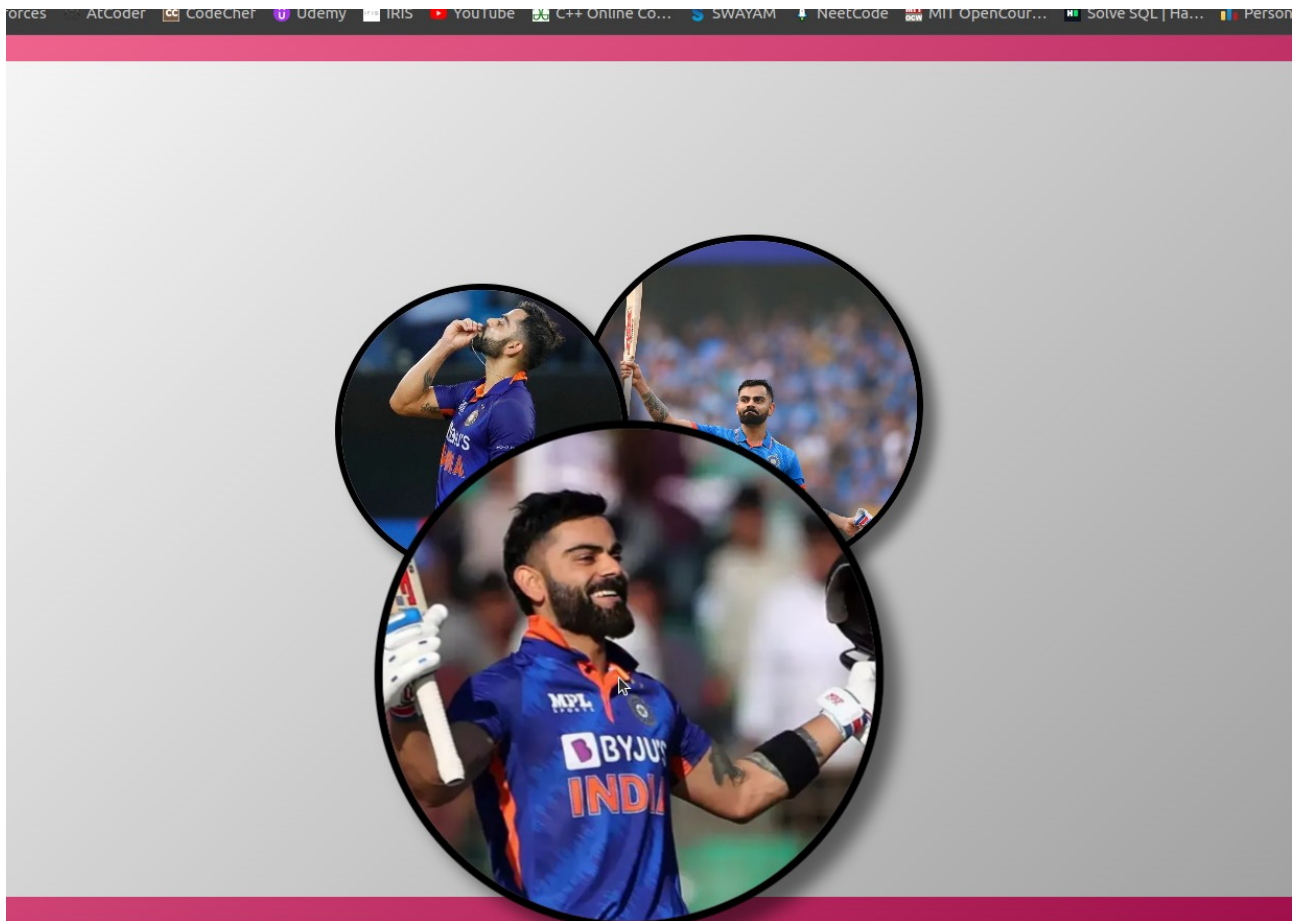
/**
 * header & back top btn show when scroll down to 100px
 */
```



# OUTPUT



when hover over a image ( You can see the mouse pointer )







# Q3.Create a Responsive Resume Website using HTML and CSS.

## CODE

### index.html

```
<!DOCTYPE html>
<html lang="en" xmlns="http://www.w3.org/1999/xhtml">

<head>
  <meta charset="UTF-8" />
  <meta name="description" content="Full Stack Web Developer" />
  <meta name="keywords" content="resume,cv,Thomas Leon Highbaugh" />
  <meta name="author" content="Thomas Leon Highbaugh" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.2/css/all.min.css" rel="stylesheet" />
  <link rel="preload" href="/fonts/Jost-Medium.woff2" as="font" crossorigin="anonymous" />
  <link rel="preconnect" href="https://fonts.googleapis.com" />
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin />
  <link
    href="https://fonts.googleapis.com/css2?family=Jost:ital,wght@0,100;0,200;0,300;0,400;0,500;0,600;0,700;0,800;0,900;1,100;1,200;1,300;1,400;1,500;1,600;1,700;1,800;1,900&display=swap"
    rel="stylesheet" />
  <link href="https://cdn.jsdelivr.net/npm/tailwindcss@2.2.19/dist/tailwind.min.css" rel="stylesheet">
  <link href="/build.css" rel="stylesheet" />
  <title>Nithin S - Resume</title>
</head>
<!-- Body -->

<body>
  <main class="font-jost hyphens-manual">
    <!-- Page -->
    <section
      class="p-3 my-auto mx-auto max-w-3xl bg-gray-100 rounded-2xl border-4 border-gray-700 sm:p-9 md:p-16 lg:mt-6 print:border-0 page print:max-w-letter print:max-h-letter print:mx-0 print:
    </-- Name -->
    <header class="inline-flex justify-between items-baseline mb-2 w-full align-top border-b-4 border-gray-300">
      <section class="block">
        <h1 class="mb-0 text-5xl font-bold text-gray-700">
          Nithin S
        </h1>
        <!-- Job Title -->
        <h2 class="m-0 ml-2 text-2xl font-semibold text-gray-700 leading-snugish">
          Full Stack Web Development
        </h2>
        <!-- Location -->
        <h3 class="m-0 mt-2 ml-2 text-xl font-semibold text-gray-500 leading-snugish">
          Mangalore, Karnataka
        </h3>
      </section>
      <!-- Initials Block -->
      <section
        class="justify-between px-3 mt-0 mb-5 text-4xl font-black leading-none text-white bg-gray-700 initials-container print:bg-black"
        style="padding-bottom: 1.5rem; padding-top: 1.5rem;"
      <section class="text-center initial">N</section>
    </section>
  </main>
</body>
```

```

1 <? index.html > <? html
2 <html lang="en" xmlns="http://www.w3.org/1999/xhtml">
3 <body>
4   <main class="font-jost hyphens-manual">
5     <section>
6       <header class="inline-flex justify-between items-baseline mb-2 w-full align-top border-b-4 border-gray-300">
7         <div style="padding-bottom: 1.5rem; padding-top: 1.5rem;">
8           <section class="text-center initial"></section>
9           <section class="text-center initial"></section>
10          <!-- <section class="text-center initial">H</section> -->
11        </div>
12      </header>
13
14      <!-- Column ----->
15      <section
16        class="col-gap-8 print:col-count-2 print:h-letter-col-full col-fill-balance md:col-count-2 md:h-letter-col-full">
17        <section class="flex-col">
18          <!-- Contact Information ----->
19          <section class="pb-2 mt-4 mb-0 first:mt-0">
20            <!-- To keep in the same column ----->
21            <section class="break-inside-avoid">
22              <section class="pb-4 mb-2 border-b-4 border-gray-300 break-inside-avoid">
23                <ul class="pr-7 list-inside">
24                  <li
25                    class="mt-1 leading-normal text-black text-gray-500 transition duration-100 ease-in hover:text-gray-700 text-md print:">
26                    <a href="https://veilmail.io/e/J-td7W"
27                      <span class="mr-2 text-lg font-semibold text-gray-700 leading-snugish">
28                        LinkedIn
29                      </span>
30                      https://www.linkedin.com/in/nithin1729s/
31                    </a>
32                    <span
33                      class="inline-block font-normal text-black text-gray-500 transition duration-100 ease-in group-hover:text-gray-700 print:text-black print:">
34                      </span>
35                  </li>
36                  <li
37                    class="mt-1 leading-normal text-gray-500 transition duration-100 ease-in hover:text-gray-700 text-md">
38                    <a href="https://github.com/Nithin1729S" class="group">
39                      <span class="mr-5 text-lg font-semibold text-gray-700 leading-snugish">
40                        Github:
41                      </span>
42                      Nithin1729S
43                    </a>
44                    <span
45                      class="inline-block font-normal text-black text-gray-500 transition duration-100 ease-in group-hover:text-gray-700 print:text-black print:">
46                      </span>
47                  </li>
48                </ul>
49              </section>
50            </section>
51          </section>
52        </section>
53      </div>

```

```

1 <? index.html > <? html
2 <html lang="en" xmlns="http://www.w3.org/1999/xhtml">
3 <body>
4   <main class="font-jost hyphens-manual">
5     <section>
6       <div class="mt-1 leading-normal text-gray-500 transition duration-100 ease-in hover:text-gray-700 text-md">
7         <a href="https://veilmail.io/e/J-td7W" class="group">
8           <span class="mr-8 text-lg font-semibold text-gray-700 leading-snugish">
9             Email:
10           </span>
11           sureshnithin1729@gmail.com
12         </a>
13         <span
14           class="inline-block font-normal text-gray-500 transition duration-100 ease-in group-hover:text-gray-700 print:text-black">
15           </span>
16       </div>
17       <li
18         class="mt-1 leading-normal text-gray-500 transition duration-100 ease-in hover:text-gray-700 text-md">
19         <a href="tel:+15109070654">
20           <span class="mr-5 text-lg font-semibold text-gray-700 leading-snugish">
21             Phone:
22           </span>
23           +91 8431751290
24         </a>
25       </li>
26     </ul>
27   </section>
28 </div>
29 <!-- Summary ----->
30 <section class="pb-2 pb-4 mt-0 border-b-4 border-gray-300 first:mt-0">
31   <!-- To keep in the same column -->
32   <section class="break-inside-avoid">
33     <h2 class="mb-2 text-xl font-bold tracking-widest text-gray-700 print:font-normal">
34       SUMMARY
35     </h2>
36     <section class="mb-2 break-inside-avoid">
37       <p class="mt-2 leading-normal text-gray-700 text-md">
38         Experienced full-stack web developer with a strong track record of independently
39         addressing complex business requirements and overcoming challenges to deliver
40         polished and user-friendly web solutions.
41       </p>
42     </section>
43   </section>
44 </section>

```



```

index.html > html
<html lang="en" xmlns="http://www.w3.org/1999/xhtml">
<body>
  <main class="font-jost hyphens-manual">
    <section
      <section
        <section class="p-0 mt-2 border-b-4 border-gray-300 first:mt-0 break-inside-avoid">
          <!-- To keep in the same column -->
          <section class="break-inside-avoid">
            <h2 class="mb-2 text-lg font-bold tracking-widest text-gray-700 print:font-normal">
              EDUCATION
            </h2>
            <!-- school 1 ----->
            <section class="mt-2 border-b-2 break-inside-avoid">
              <header>
                <h3 class="text-lg font-semibold text-gray-700 leading-snugish">
                  National Institute Of Technology Karnataka Surathkal
                </h3>
                <p class="leading-normal text-gray-500 text-md">
                  2022 &ndash; 2026 | Bachelor of Technology
                </p>
              </header>
              <ul class="mt-2 list-disc list-inside text-gray-800 text-md">
                <li>
                  <span class="font-semibold text-md">
                    Major:
                  </span>
                  Information Technology
                </li>
                <li>
                  <span class="font-semibold text-md">
                    Minor:
                  </span>
                  Machine Learning
                </li>
                <li>
                  <span class="font-semibold text-md">
                    GPA:
                  </span>
                  9.57
                </li>
                <li>
                  <span class="font-semibold text-md">
                    Skills:
                  </span>
                  MERN, Firebase, Flask, Django
                </li>
              </ul>
            </section>
            <!-- school 2 ----->

```

```

index.html > html
<html lang="en" xmlns="http://www.w3.org/1999/xhtml">
<body>
  <main class="font-jost hyphens-manual">
    <section
      <section
        </li>
        <li
          class="p-1.5 mb-1 leading-relaxed text-white bg-gray-800 mr-1.6 print:bg-white print:border-inset">
          Node.js
        </li>
        <li
          class="p-1.5 mb-1 leading-relaxed text-white bg-gray-800 mr-1.6 print:bg-white print:border-inset">
          React.js
        </li>
        <li
          class="p-1.5 mb-1 leading-relaxed text-white bg-gray-800 mr-1.6 print:bg-white print:border-inset">
          Python
        </li>
        <li
          class="p-1.5 mb-1 leading-relaxed text-white bg-gray-800 mr-1.6 print:bg-white print:border-inset">
          NoSQL
        </li>
        <li
          class="p-1.5 mb-1 leading-relaxed text-white bg-gray-800 mr-1.6 print:bg-white print:border-inset">
          PostgreSQL
        </li>
        <li
          class="p-1.5 mb-1 leading-relaxed text-white bg-gray-800 mr-1.6 print:bg-white print:border-inset">
          MongoDB
        </li>
        <li
          class="p-1.5 mb-1 leading-relaxed text-white bg-gray-800 mr-1.6 print:bg-white print:border-inset">
          Linux
        </li>
        <li
          class="p-1.5 mb-1 leading-relaxed text-white bg-gray-800 mr-1.6 print:bg-white print:border-inset">
          AWS
        </li>
        <li
          class="p-1.5 mb-1 leading-relaxed text-white bg-gray-800 mr-1.6 print:bg-white print:border-inset">
          Web Design
        </li>
        <li
          class="p-1.5 mb-1 leading-relaxed text-white bg-gray-800 mr-1.6 print:bg-white print:border-inset">
          UI/UX</li>
        <li
          class="p-1.5 mb-1 leading-relaxed text-white bg-gray-800 mr-1.6 print:bg-white print:border-inset">
          CI/CD </li>

```



```

1  index.html > HTML
2  <html lang="en" xmlns="http://www.w3.org/1999/xhtml">
3  <body>
4    <main class="font-jost hyphens-manual">
5      <section>
6        <section>
7          <!-- Job 1 -->
8          <section class="mb-2 border-b-2 border-gray-300 break-inside-avoid">
9            <header>
10              <h3 class="font-semibold text-gray-800 text-md leading-snugish">
11                Full Stack Web Developer
12              </h3>
13              <p class="text-sm leading-normal text-gray-500">
14                Jun 2018 &ndash; Present | ISTE
15              </p>
16            </header>
17            <ul class="pl-3 mt-2 font-normal text-gray-700 text-md leading-snugish">
18              <li>
19                <span class="text-gray-500 transform -translate-y-px select-none">
20                  &rsquo;
21                </span>
22                Created high-quality, customized web applications from scratch, employing a
23                diverse set of programming languages, including HTML, CSS, JavaScript, PHP, and
24                Python, to fulfill unique client requirements.
25              </li>
26              <li>
27                <span class="text-gray-500 transform -translate-y-px select-none">
28                  &rsquo;
29                </span>
30                Leveraged a range of bleeding edge front-end frameworks like React.js, Nullstack
31                and Vue.js, as well as back-end frameworks such as Node.js and Express, to
32                deliver robust and scalable web solutions.
33              </li>
34              <li>
35                <span class="text-gray-500 transform -translate-y-px select-none">
36                  &rsquo;
37                </span>
38                Designed and implemented databases using SQL and NoSQL technologies like MySQL,
39                PostgreSQL, MongoDB, and Firebase, optimizing data storage and management.
40              </li>
41            </ul>
42          </section>
43          <!-- Job 2 -->
44          <!-- Job 3 -->
45          <!-- Job 4 -->
46        </section>
47      </section>

```

## style.css

```

1  # style.css > ...
2  @font-face {
3    font-family: 'Open Sans';
4    font-style: normal;
5    font-weight: 400;
6    font-display: swap;
7    unicode-range: U+0000-00FF, U+0131, U+0152-0153, U+02BB-02BC, U+02C6, U+02DA, U+02DC, U+2000-206F, U+2074, U+20AC, U+2122, U+2191, U+2193, U+2212, U+2215, U+FEFF, U+FFFD;
8    src: local('Open Sans Regular'), local('OpenSans-Regular'), url('https://fonts.gstatic.com/s/opensans/v16/mem8Yags126MiZpBA-UfV20b.woff2') format('woff2');
9  }
10 @font-face {
11   font-family: 'Roboto';
12   font-style: normal;
13   font-weight: 400;
14   font-display: swap;
15   unicode-range: U+0000-00FF, U+0131, U+0152-0153, U+02BB-02BC, U+02C6, U+02DA, U+02DC, U+2000-206F, U+2074, U+20AC, U+2122, U+2191, U+2193, U+2212, U+2215, U+FEFF, U+FFFD;
16   src: local('Roboto'), local('Roboto-Regular'), url('https://fonts.gstatic.com/s/roboto/v19/KFOmCnqEu92Fr1Mu4mxK.woff2') format('woff2');
17 }
18 @page {
19   size: A4;
20 }
21 body {
22   color-adjust: exact;
23   background-color: #ffff;
24   font-family: 'Open Sans', sans-serif;
25   font-weight: 300;
26   display: flex;
27   justify-content: center;
28 }
29 .btn-print {
30   z-index: 1;
31   position: absolute;
32   right: 20px;
33   top: 20px;
34 }
35 .resume {
36   display: block;
37   font-family: 'Roboto', sans-serif;
38   font-size: 13.0736px;
39   font-weight: 400;
40   line-height: 1.5;
41   min-height: 1090.41px;
42 }
43 .resume h1 {
44   font-size: 2.86em;
45   font-weight: 600;
46   letter-spacing: -0.5px;
47 }
48 .resume h2 {
49   font-size: 1.43em;
50   font-weight: 600;
51 }

```

```

# style.css > ...
1 .resume .info-label {
2   display: inline-block;
3   padding-right: 0em;
4   padding-left: 0.5em;
5   font-size: 1.14em;
6   min-width: 2.19em;
7   text-align: center;
8 }
9 .resume .info-label i {
10  color: #5695cd;
11 }
12 .resume .xp-item {
13   margin-bottom: 2em;
14 }
15 .resume .xp-item:last-child {
16   margin-bottom: 0;
17 }
18 .resume .xp-job {
19   font-size: 1.14em;
20   font-weight: 600;
21   line-height: 1.25;
22 }
23 .resume .xp-job span,
24 .resume .xp-job small {
25   font-weight: 400;
26 }
27 .resume .xp-job small {
28   font-size: 0.9em;
29 }
30 .resume .xp-date {
31   font-size: 0.8em;
32   margin-top: 0.3em;
33   margin-bottom: 1em;
34   color: #5695cd;
35 }
36 .resume .extra {
37   margin-bottom: 1em;
38 }
39 .resume .extra:last-child {
40   margin-bottom: 0;
41 }
42 .resume .extra-info small {
43   color: #666;
44   display: inline-block;
45   font-size: 0.7em;
46 }
47 .resume .extra-details,
48 .resume .extra-details__progress {
49   border-radius: 6px;
50 }

```

Open (Ctrl+O)

```

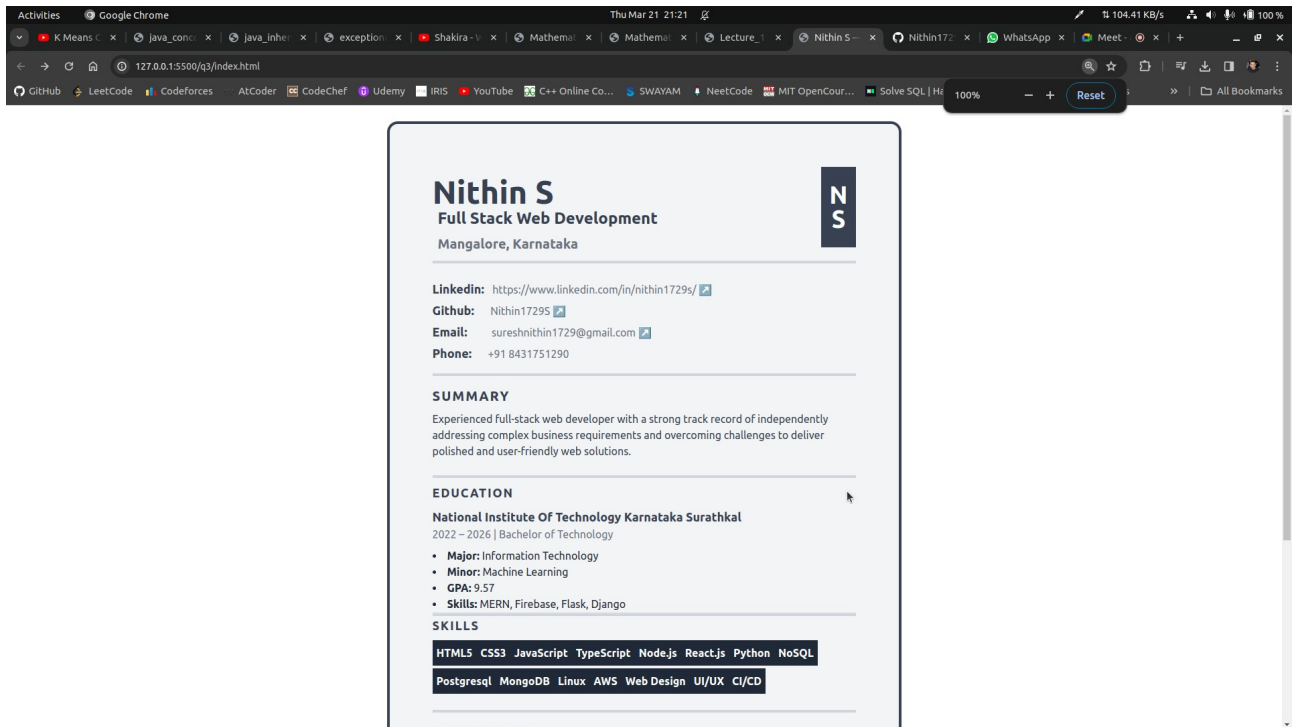
# style.css > ...
1 .resume .extra-details {
2   margin-top: 0.3em;
3   background-color: #d1d9e1;
4   width: 100%;
5   height: 5px;
6   position: relative;
7 }
8 .resume .extra-details__progress {
9   background-color: #5695cd;
10  height: 5px;
11  position: absolute;
12  top: 0;
13  left: 0;
14 }
15 .resume .lang-item {
16   margin-bottom: 2em;
17 }
18 .resume .lang-item:last-child {
19   margin-bottom: 0;
20 }
21 .resume .lang-label {
22   width: 8em;
23 }
24 @media print {
25   body {
26     min-width: initial !important;
27   }
28   .btn-print {
29     display: none;
30   }
31 }

```

I

Clone Formatting (double click and Ctrl or Cmd to alter behavior)

# OUTPUT



# Nithin S

## Full Stack Web Development

Mangalore, Karnataka

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S

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**Phone:** +91 8431751290

### SUMMARY

Experienced full-stack web developer with a strong track record of independently addressing complex business requirements and overcoming challenges to deliver polished and user-friendly web solutions.

### EDUCATION

#### National Institute Of Technology Karnataka Surathkal

2022 – 2026 | Bachelor of Technology

- **Major:** Information Technology
- **Minor:** Machine Learning
- **GPA:** 9.57
- **Skills:** MERN, Firebase, Flask, Django

### SKILLS

HTML5 CSS3 JavaScript TypeScript Node.js React.js Python NoSQL

Postgresql MongoDB Linux AWS Web Design UI/UX CI/CD

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## SKILLS

HTML5 CSS3 JavaScript TypeScript Node.js React.js Python NoSQL

Postgresql MongoDB Linux AWS Web Design UI/UX CI/CD

## EXPERIENCE

### Full Stack Web Developer

Jun 2018 – Present | ISTE

- › Created high-quality, customized web applications from scratch, employing a diverse set of programming languages, including HTML, CSS, JavaScript, PHP, and Python, to fulfill unique client requirements.
- › Leveraged a range of bleeding edge front-end frameworks like React.js, Next.js, and Vue.js, as well as back-end frameworks such as Node.js and Express, to deliver robust and scalable web solutions.
- › Designed and implemented databases using SQL and NoSQL technologies like MySQL, PostgreSQL, MongoDB, and Firebase, optimizing data storage and management.

# Nithin S

## Full Stack Web Development

Mangalore, Karnataka

NS

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**Phone:** +91 8431751290

### SUMMARY

Experienced full-stack web developer with a strong track record of independently addressing complex business requirements and overcoming challenges to deliver polished and user-friendly web solutions.

### EDUCATION

**National Institute Of Technology Karnataka Surathkal**  
2022 - 2026 | Bachelor of Technology

- **Major:** Information Technology
- **Minor:** Machine Learning
- **GPA:** 5.57
- **Skills:** MERN, Firebase, Flask, Django

### SKILLS

**HTML5 CSS3 JavaScript TypeScript Node.js React.js Python NoSQL**

**PostgreSQL MongoDB Linux AWS Web Design UI/UX C/C++**

### EXPERIENCE

**Full Stack Web Developer**  
Jan 2024 - Present | DSE

- Created high-quality, customized web applications from scratch, employing a diverse set of programming languages, including HTML, CSS, JavaScript, PHP, and Python, to fulfill unique client requirements.
- Leveraged a range of bleeding edge front-end frameworks like React.js, Next.js, and Vue.js, as well as back-end frameworks such as Node.js and Express, to deliver robust and scalable web solutions.
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