

WAPH - Web Application Programming and Hacking

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Profile Pic

Repository information for Project 1

Repository

Repository URL: <https://github.com/barupasa/barupasa.github.io>.

INDIVIDUAL PROJECT 1 : PERSONAL WEBSITE

Overview

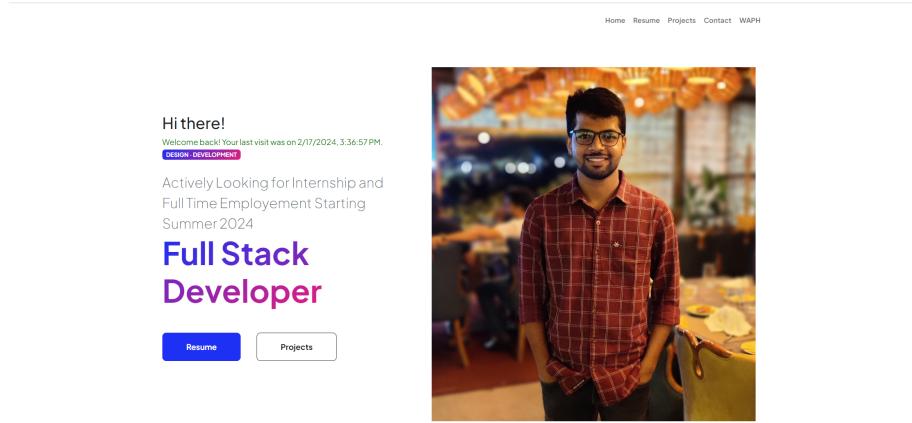
In the project 1 ,I have developed a personal portfolio which has all my details such as Name ,profile pic ,experience ,education ,resume and skills .The portfolio is linked with a waph.html page to showcase all my work which i learnt in WAPH course. The portfolio is integrated with analog ,digital clock ,show your email.The portfolio is also integrated with two public API's Joke and weather . Javascript Cookies is introduced to remember the user and a random greeting message is also displayed when the portfolio is opened .

Techstack used : HTML,CSS,JQuery,Java script ,React and Bootstarp. ***

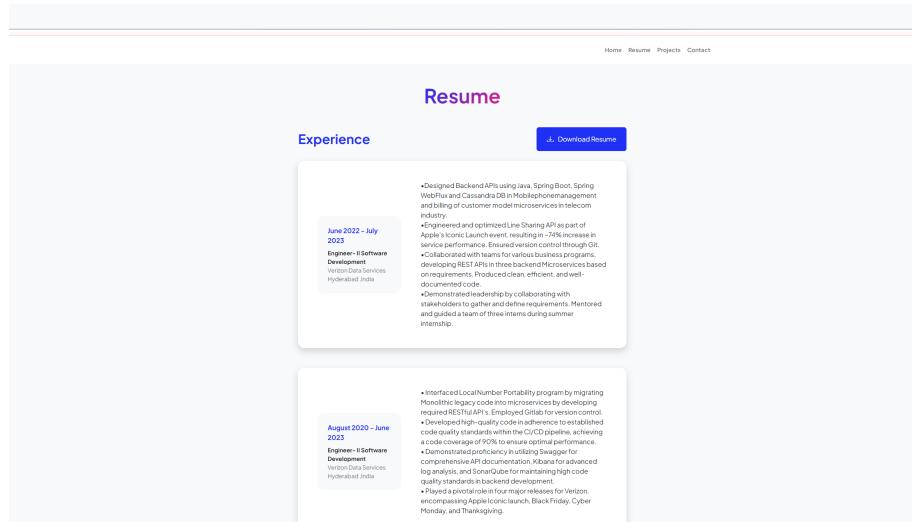
Task 1 : General requirements (30 pts)

Create and deploy Personal website

I have built personal portfolio by using a predefined bootstrap template which I got at startbootstrap.com .I have updated all my details in the portfolio as mentioned in the requirements such as Name ,profile pic ,experience ,education ,resume and skills .



The screenshot shows a personal website with a header navigation bar containing Home, Resume, Projects, Contact, and WAPH. Below the header is a large profile photo of a man with glasses and a beard, wearing a red plaid shirt. To the left of the photo, there is a greeting message: "Hi there! Welcome back! Your last visit was on 2/17/2024, 3:36:57 PM." Below this, a "DESIGN DEVELOPMENT" section lists "Actively Looking for Internship and Full Time Employment Starting Summer 2024". A prominent purple "Full Stack Developer" heading is displayed. At the bottom of the main content area are two buttons: "Resume" (blue) and "Projects" (white).



The screenshot shows the "Resume" section of the website. The title "Resume" is centered at the top. Below it, a "Experience" section is shown with two job entries:

- June 2022 - July 2023**
Engage IT Software
Implementation
Vinson Data Services
Hyderabad, India
• Designed Backend APIs using Java, Spring Boot, Spring WebFlux, and Docker. Developed E2E integration tests for payment processing and billing of customer model microservices in telecom industry.
• Engineered and optimized the Shopping API as part of Apple Pay launch, resulting in ~70% increase in service performance. Ensured version control through Git.
• Collaborated with teams for various business programs, developed and maintained documentation for each based on requirements. Produced clean, efficient, and well-documented code.
• Developed and maintained API documentation by collaborating with stakeholders to gather and define requirements. Mentored and guided a team of three interns during summer internship.
- August 2020 - June 2023**
Engage IT Software
Implementation
Vinson Data Services
Hyderabad, India
• Integrated Local Number Portability program by migrating Monolithic legacy code into microservices by developing required RESTful APIs. Employed GitLab for version control.
• Developed high-quality code in adherence to established coding standards and best practices, achieving a code coverage of 90% to ensure optimal performance.
• Demonstrated proficiency in utilizing Swagger for documenting APIs and using OpenAPI for automated log analysis and SonarQube for maintaining high code quality standards in backend development.
• Played a key role in our major releases for Holi, encompassing Apple iPhone launch, Black Friday, Cyber Monday, and Thanksgiving.

A "Download Resume" button is located above the second job entry.

This screenshot shows a resume page with a light gray header containing the URL '127.0.0.1:5500/resume.html'. Below the header are three main sections: 'University Of' (with 'Fermat' and 'Official' text), 'Bachelor's Information Technology', and 'Relevant course work' (listing 'Human Computer Interaction', 'Advance Data storage', 'Infrastructure Sustainability', and 'Web Application Programming and hacking').

The second section contains 'August 2016 - August 2020' (CVR College of Engineering, Hyderabad, India, Bachelor's Information Technology) and 'Relevant course work' (listing 'Object Oriented Programming Java', 'Cloud Management System SQL', 'Web Development', 'Operating Systems', and 'Cloud Computing').

The third section is titled 'Professional Skills' (Software Development, System Design) and 'Technical Skills' (HTML, CSS, JavaScript, Java, SQL, Microservices).

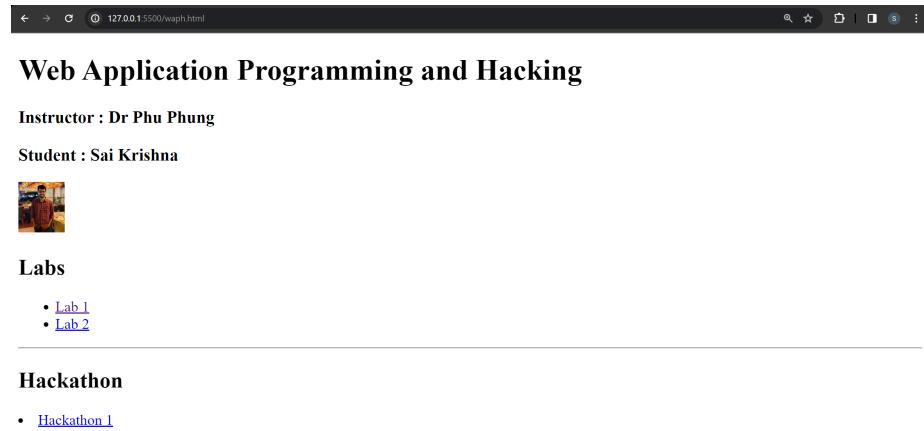
This screenshot shows a projects section with a purple header 'Projects'. It includes two cards: 'Full stack Application' (Ecommerce site) and 'Mobile Application' (Event Management).

This screenshot shows an 'About Me' section with a purple header. It includes a bio ('I'm actively looking for Internship/Full Time starting Summer 2024. I have 3 years of work experience as Software Developer at Verizon Data Services.'), social media links (Twitter, LinkedIn, GitHub), and a clock icon.

The footer includes a weather forecast for Ohio (21°F, overcast clouds) and a programming joke: "Honey, go to the store and buy some eggs." "OK." "Oh and while you're there, get some milk." He never returned.

Link to “Web Application Programming and Hacking” course

I have updated the portfolio with a new page to showcase my work done as part of WAPH course.



The screenshot shows a web browser window with the URL '127.0.0.1:5500/waph.html'. The page title is 'Web Application Programming and Hacking'. Below the title, it says 'Instructor : Dr Phu Phung' and 'Student : Sai Krishna' with a small profile picture. There are sections for 'Labs' (with links to 'Lab 1' and 'Lab 2'), 'Hackathon' (with a link to 'Hackathon 1'), and other content.

Figure 1: WAPH page

Integrated Google Analytics Page tracker

```
<!-- Google tag (gtag.js) -->
<script async src="https://www.googletagmanager.com/gtag/js?id=G-Q84ZVQPSLS"></script>
<script>
  window.dataLayer = window.dataLayer || [];
  function gtag(){dataLayer.push(arguments);}
  gtag('js', new Date());

  gtag('config', 'G-Q84ZVQPSLS');
</script>
```

TASK 2: Technical requirements

integrated functionalities learnt in Lab2

I have included a digital clock, analog clock, show/hide your email from lab2 and other functionality I have added greetings message in the portfolio to make it more interesting. For greetings I have added few messages and wrote the script such that it will display a random greeting every time when the portfolio is used. attached snapshots for the same .

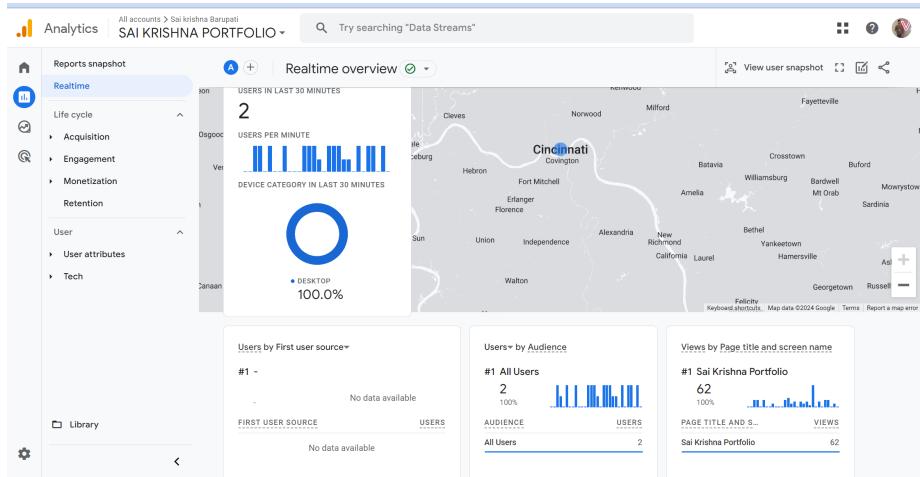


Figure 2: Google Analytics Tracker Results

```

<div id="email" style="color:blue;" onclick="showOrHideEmail()">Display my E-mail</div>
<script type="text/javascript" src="js/email.js"></script>

<div id="digital-clock" style="color:blue;"></div>

<canvas id="analog-clock" width="150" height="150" style="background-color:#fff; border:1px solid #ccc; position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%);></canvas>
<!-- Analog clock script -->
<script src="https://waph-uc.github.io/clock.js"></script>
<script type="text/javascript">
var canvas=document.getElementById("analog-clock");
var ctx=canvas.getContext("2d");
var radius=canvas.height/2 ;
ctx.translate(radius,radius);
radius=radius * 0.90 ;
setInterval(drawClock,1000);
function drawClock(){
drawFace(ctx,radius);
drawNumbers(ctx,radius);
drawTime(ctx,radius);
}
</script>

<!-- Digital clock script -->
<script type="text/javascript">
function displayTime() {
document.getElementById('digital-clock').innerHTML=" The current Time is "+new Date().toLocaleString();
}
</script>

```

```

        setInterval(displayTime,500);
    </script>

    var isVisible = false;
    function showOrHideEmail() {
        if (isVisible) {
            document.getElementById('email').innerHTML = " Show my Email"; visible = false;
        }
        else {
            var myEmail = "<a href='mailto:barupasa" + "@" + "mail.uc.edu'>barupasa" + "@" +
                document.getElementById('email').innerHTML = myEmail; visible = true;
        }
    }
}

```

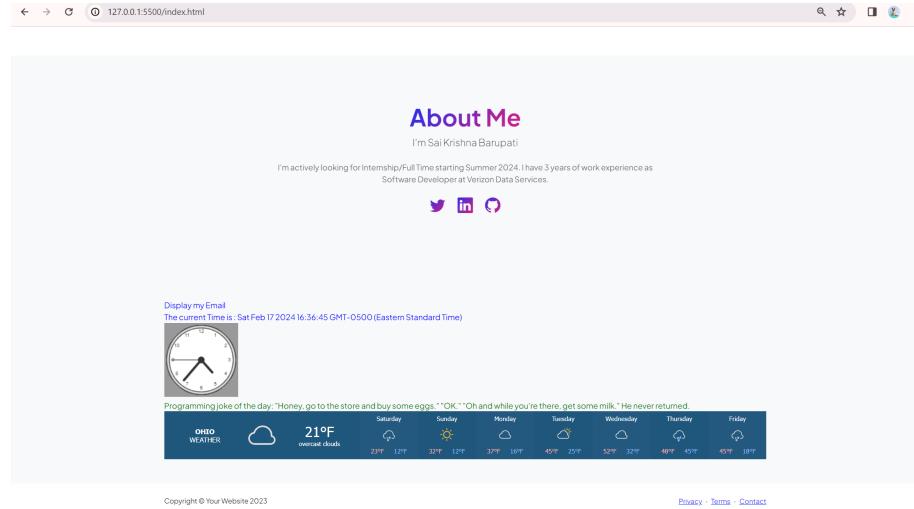


Figure 3: Digital,Analog ,show or hide email

Joke API

I have integrated public joke API which i learnt in lab2.Below is the code snippet

```

<div id="joke" style="color:green;"></div>

<!-- Joke API script -->
<script src="https://code.jquery.com/jquery-3.7.1.min.js"
       integrity="sha256-/JqT3SQfawRcv/BIHPThkBvs0OEvtFFmqPF/lYI/Cxo=" crossorigin=>
<script>

```

```

$.get("https://v2.jokeapi.dev/joke/Programming?type=single",
      function (result) {
        console.log("from joke API: " + JSON.stringify(result));
        $("#joke").html("Programming joke of the day: " + result.joke);
    });
</script>

```

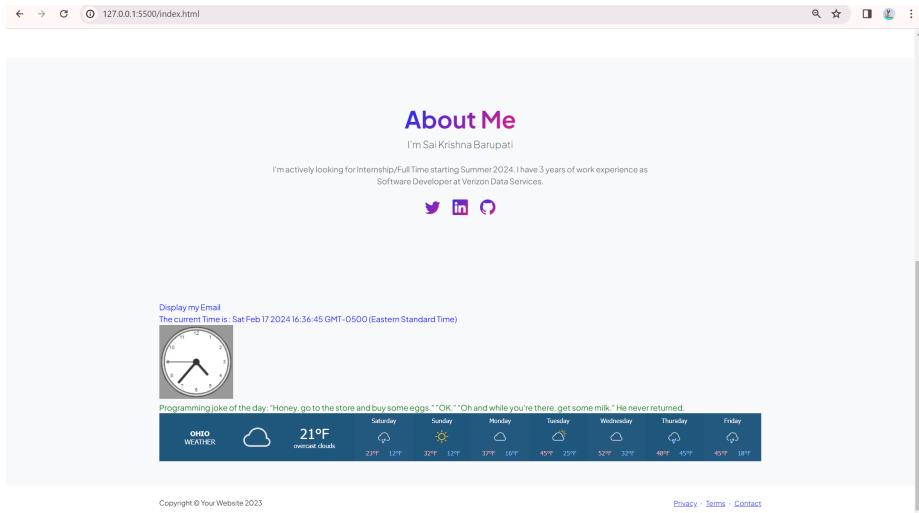


Figure 4: Random Joke

Public API with graphics

I have integrated a public weather API which has graphics .

```

<!-- Weather widget script -->
<a class="weatherwidget-io" href="https://forecast7.com/en/40d42n82d91/ohio"
   data-label_2="WEATHER" data-theme="original">OHIO WEATHER</a>
<script>
  !function (d, s, id) { var js, fjs = d.getElementsByTagName(s)[0]; if (
</script>

```

Greeting Message

To make the portfolio better, I have added greeting message using react which is a JS library ,In which I have added few greeting messages and wrote the script such that it will display a random greeting every time when the portfolio is used.

```

const Greeting = () => {
  const greetings = [
    'Hello!',
    'Hi there!',
    'How are you?',
    'Nice to meet you!',
    'Great to see you again!'
  ];
  const randomIndex = Math.floor(Math.random() * greetings.length);
  return greetings[randomIndex];
}

```

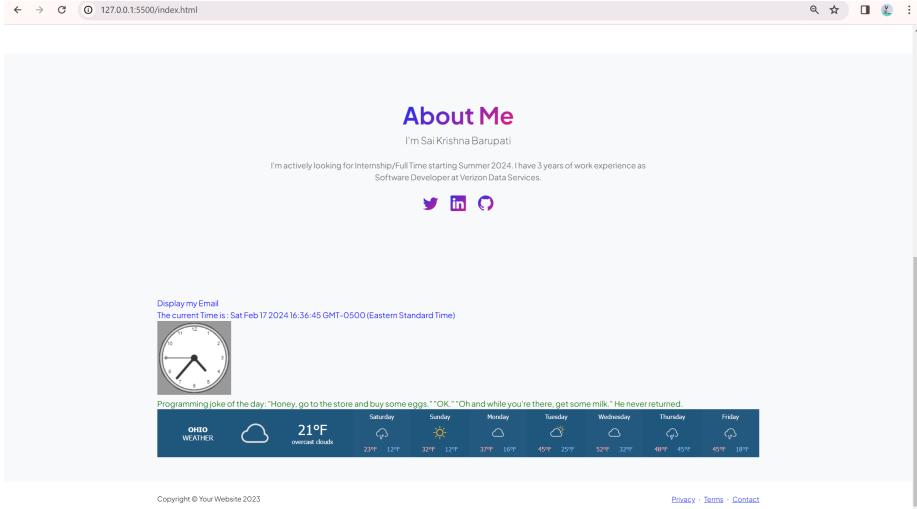


Figure 5: weather widget

```
'Hi there!',  
'Welcome!',  
'Greetings!',  
'Nice to see you!',  
];  
  
const randomIndex = Math.floor(Math.random() * greetings.length);  
const randomGreeting = greetings[randomIndex];  
  
return React.createElement('h2', null, randomGreeting);  
};  
  
ReactDOM.render(React.createElement(Greeting, null), document.getElementById('greeting'));
```

Cookie

I have integrated portfolio with Javascript cookies to remember the user .I gave customized message based on the cookie .below is the code i have utilized .

```
<!-- Cookie script -->  
<script>  
    function setCookie(name, value, expiryDays) {  
        const expirationDate = new Date();  
        expirationDate.setDate(expirationDate.getDate() + expiryDays);  
        document.cookie = `${name}=${value};expires=${expirationDate.toUTCString()}`  
    }  
</script>
```

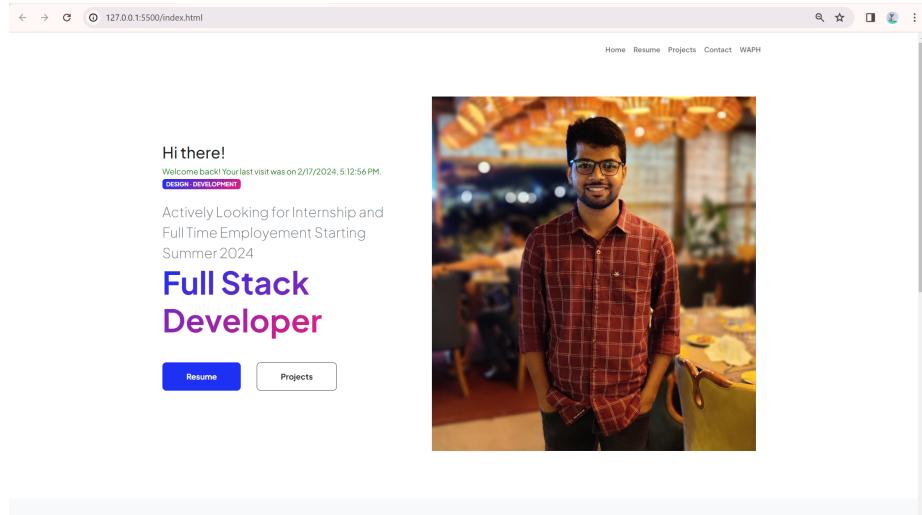


Figure 6: Random greeting message

```

function getCookie(name) {
    const cookieValue = document.cookie.split('; ')
        .find(cookie => cookie.startsWith(name + '='))
        ?.split('=')[1];
    return cookieValue ? decodeURIComponent(cookieValue) : '';
}

function welcomeUser() {
    const lastVisit = getCookie('lastVisit');
    const greetingElement = document.getElementById("welcomecookie");

    if (lastVisit) {
        greetingElement.innerHTML = `Welcome back! Your last visit was on ${lastVisit}`;
    } else {
        greetingElement.innerHTML = 'Welcome to Sai Krishna portfolio!';
    }

    setCookie('lastVisit', new Date().toLocaleString(), 365);
}

welcomeUser();

</script>

```

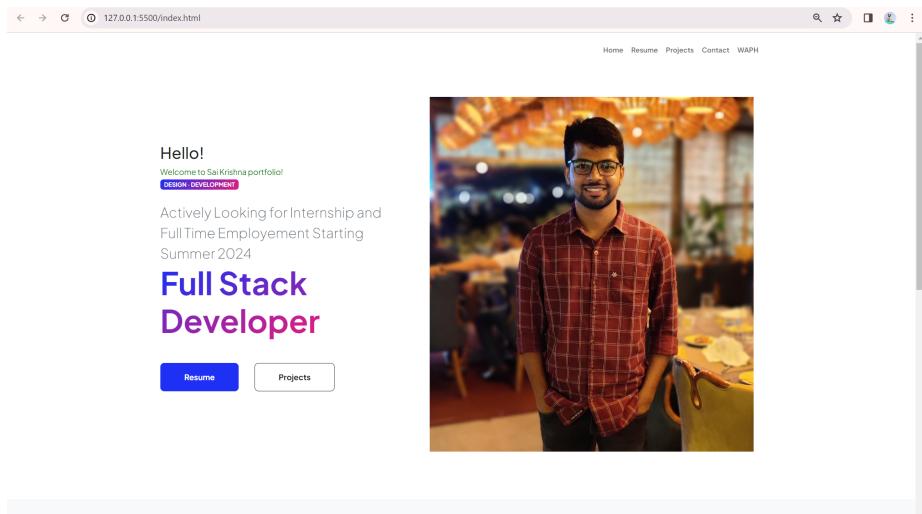


Figure 7: First time user

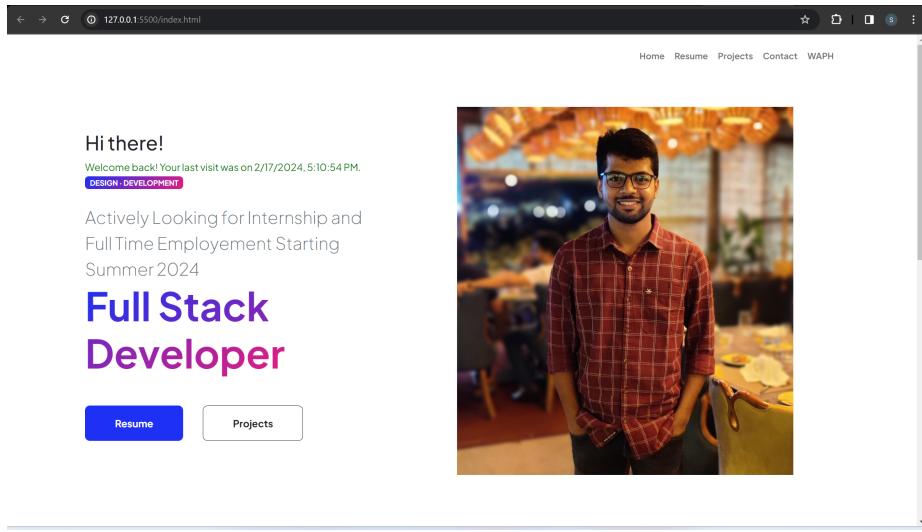


Figure 8: Revisted user