WAPH-Web Application Programming and Hacking

Instructor: Dr. Phu Phung

Student

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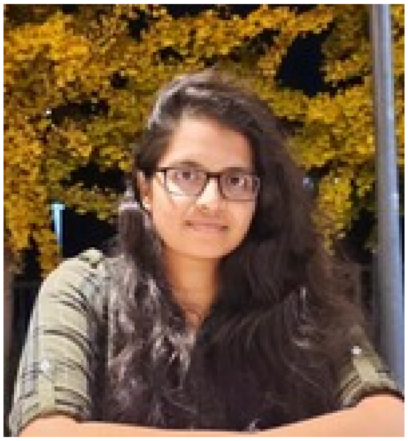


Figure 1: Grahika Rampudi

Project 1 - Professional HomePage

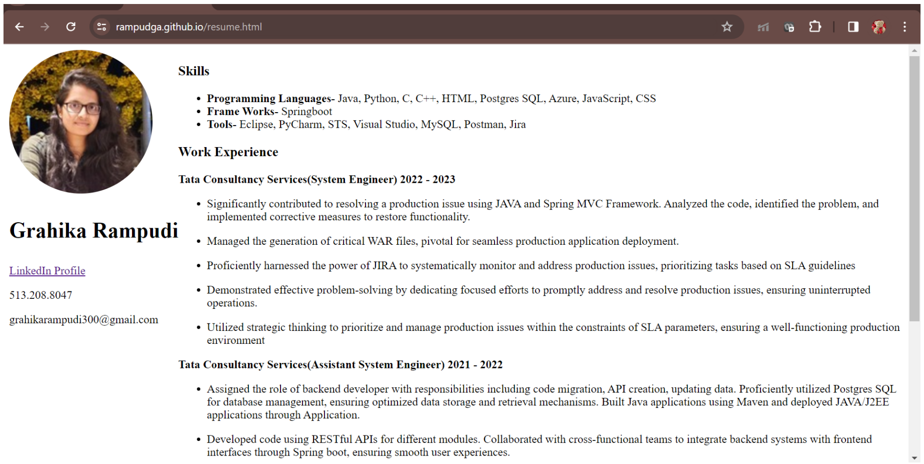
Overview: In this project,I expand front-end web development skills by developing a Professional Profile Website and deploying it on github.io cloud service. This project has general, non-technical, and technical requirements like preparing github.io, displaying portfolio with BootStrap, adding few javascript functionalities. index.html is the main page where it contains 7 tabs which has about, experience, education, skills, interests, certifications, miscllaneous.

Link to the repository: https://github.com/rampudga/rampudga.github.io/blob/main/README.md

Link to the portfolio: https://rampudga.github.io/index.html

Task 1 : General Requirements

-Created a “rampudga.github.io” personal website where this includes basic profile details of me with no styling. https://rampudga.github.io/resume.html



rampudga.github.io/resume.html

Grahika Rampudi

LinkedIn Profile

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Skills

- **Programming Languages-** Java, Python, C, C++, HTML, Postgres SQL, Azure, JavaScript, CSS
- **Frame Works-** Springboot
- **Tools-** Eclipse, PyCharm, STS, Visual Studio, MySQL, Postman, Jira

Work Experience

Tata Consultancy Services(System Engineer) 2022 - 2023

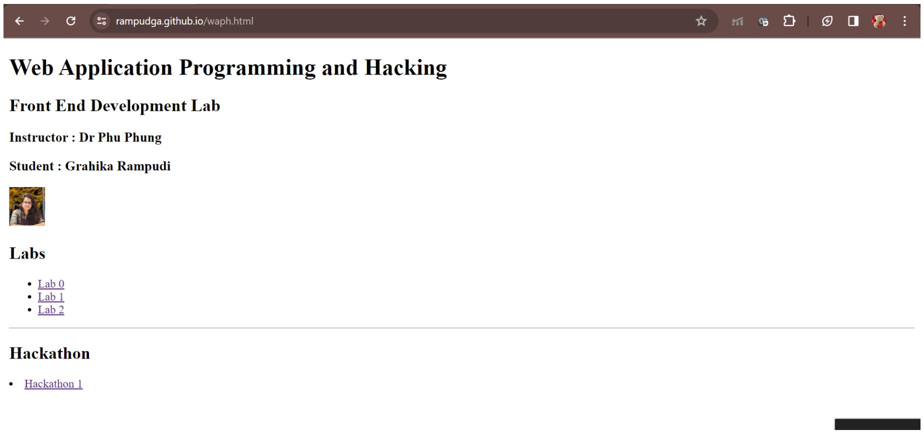
- Significantly contributed to resolving a production issue using JAVA and Spring MVC Framework. Analyzed the code, identified the problem, and implemented corrective measures to restore functionality.
- Managed the generation of critical WAR files, pivotal for seamless production application deployment.
- Proficiently harnessed the power of JIRA to systematically monitor and address production issues, prioritizing tasks based on SLA guidelines
- Demonstrated effective problem-solving by dedicating focused efforts to promptly address and resolve production issues, ensuring uninterrupted operations.
- Utilized strategic thinking to prioritize and manage production issues within the constraints of SLA parameters, ensuring a well-functioning production environment

Tata Consultancy Services(Assistant System Engineer) 2021 - 2022

- Assigned the role of backend developer with responsibilities including code migration, API creation, updating data. Proficiently utilized Postgres SQL for database management, ensuring optimized data storage and retrieval mechanisms. Built Java applications using Maven and deployed JAVA/J2EE applications through Application.
- Developed code using RESTful APIs for different modules. Collaborated with cross-functional teams to integrate backend systems with frontend interfaces through Spring boot, ensuring smooth user experiences.

Figure 2: Basic Resume

- Created a course link in index.html page in miscllaneous tab where it displays all the course work till now in WAPH course i.e all labs and hackathon reports pdfs.



rampudga.github.io/waph.html

Web Application Programming and Hacking

Front End Development Lab

Instructor : Dr Phu Phung

Student : Grahika Rampudi

Labs

- Lab 0
- Lab 1
- Lab 2

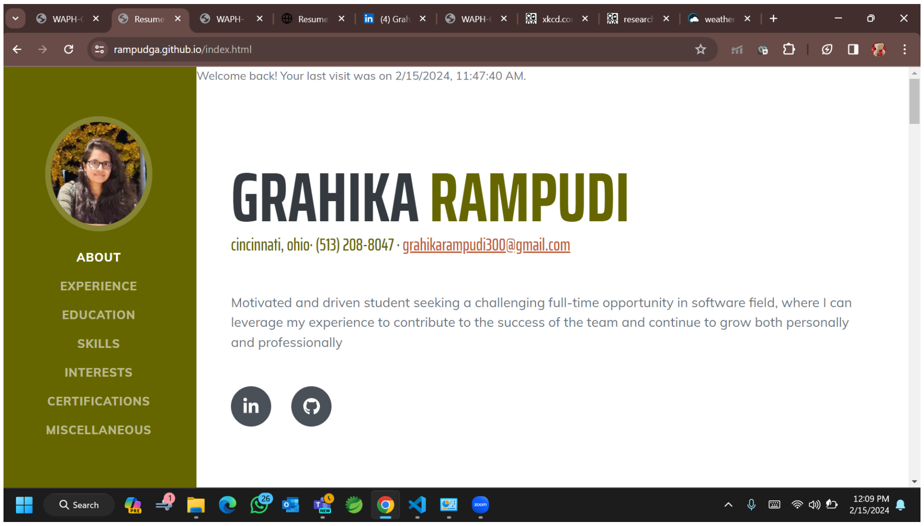
Hackathon

- Hackathon 1

Figure 3: Course Work

Task 2 : Non-technical Requirements

- Used a open source boootstrap template including page tracker. In Portfolio added few sections which focuses on the profile as part of job application- which includes about, experience, education, skills, interests, certifications, miscllaneou sections.



Welcome back! Your last visit was on 2/15/2024, 11:47:40 AM.

GRAHIKA RAMPUDI

cincinnati, ohio· (513) 208-8047 · grahikarampudi300@gmail.com

Motivated and driven student seeking a challenging full-time opportunity in software field, where I can leverage my experience to contribute to the success of the team and continue to grow both personally and professionally

Figure 4: BootStrap

- In page tracker google analytics is used which helps to track the visitors number with location and device.

```
<script async src="https://www.googletagmanager.com/gtag/js?id=G-Z3PFRKP3DC"></script>
    <script>
        window.dataLayer = window.dataLayer || [];
        function gtag() { dataLayer.push(arguments); }
        gtag('js', new Date());

        gtag('config', 'G-Z3PFRKP3DC');
    </script>
```

Technical Requirements

Task 1 : Basic Javascript Code

In Miscellaneous tab I added digital clock, analog clock, show or hide email, and from different feature named greeting which used to greet at the start of the page like “GOOD MORNING”, “GOOD AFTERNOON” , “GOOD EVENING”, based on the time hour. It displays as an alert and then it displays on the page.

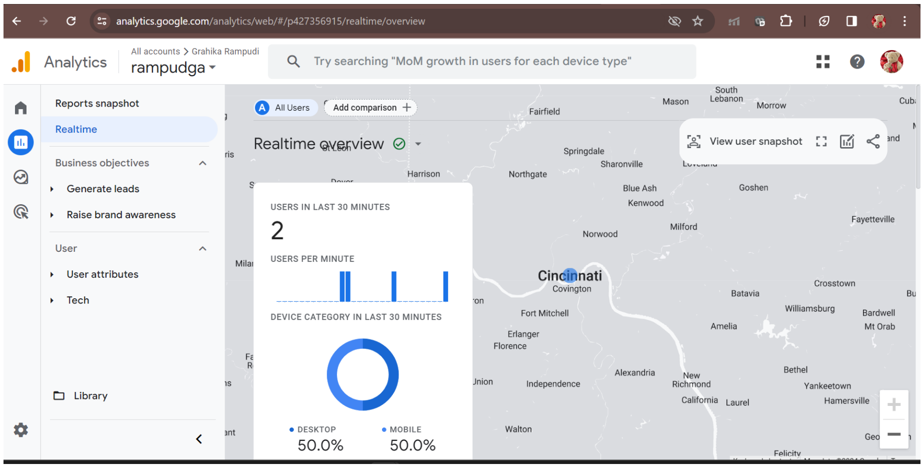


Figure 5: Page Tracker

```
// greetings.js
const Greeting = () => {
  const hour = new Date().getHours();
  let greetingMessage;

  if (hour >= 5 && hour < 12) {
    alert(greetingMessage = 'Good morning!');
  } else if (hour >= 12 && hour < 17) {
    alert(greetingMessage = 'Good afternoon!');
  } else {
    alert(greetingMessage = 'Good evening!');
  }

  return React.createElement('h2', null, greetingMessage);
};

ReactDOM.render(React.createElement(Greeting, null), document.getElementById('greeting-root
```

Task 2 : Public WEB APIs Integration

1. Integrated joke APi which updates every 1 min automatically. https://v2.jokeapi.dev/joke/Any

```
<b>Joke &#x1F604;</b>
         <div id="joke"></div>

         <script>
```

```
                    // Function to fetch and display a joke
                    function fetchJoke() {
                        fetch('https://v2.jokeapi.dev/joke/Any')
                            .then(response => response.json())
                            .then(data => {
                                // Check if the joke is a single joke or a setup and delive
                                const joke = data.type === 'single' ? data.joke : `${data.se
                                // Display the joke
                                document.getElementById('joke').innerHTML = joke;
                            })
                            .catch(error => {
                                console.error('Error fetching joke:', error);
                            });
                    }

                    // Fetch a joke immediately when the page loads
                    fetchJoke();

                    // Fetch a new joke every 1 minute
                    setInterval(fetchJoke, 60000);
                </script>
```

2. Integrated a public api of random dogs which gets a new dogg image every time. Used https://dog.ceo/api/breeds/image/random

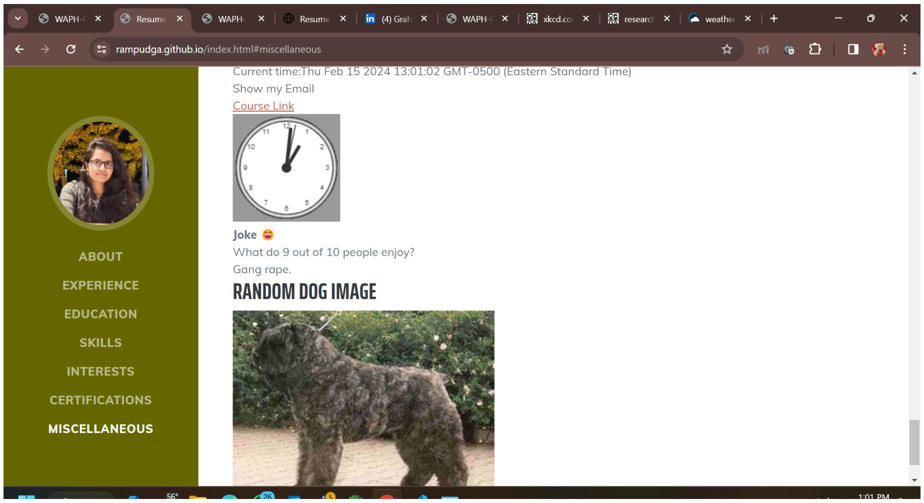
```
<h3>Random Dog Image</h3>
                <img id="dog-image" src="" alt="Random Dog Image">

                <script>
                    fetch('https://dog.ceo/api/breeds/image/random')
                        .then(response => response.json())
                        .then(data => {
                            const dogImage = document.getElementById('dog-image');
                            dogImage.src = data.message;
                        })
                        .catch(error => console.error('Error fetching data:', error));
                </script>
```

Cookies Integration

-Used setCookie(), getCookie() to set an ddisplay the message “welcome to my portfolio” and “welcome! Your Last Vist with date”.

```
<script>
//other script
<div id1="greetingCookie">Hello</div>
//other script
```



Current time:Thu Feb 15 2024 13:01:02 GMT-0500 (Eastern Standard Time)
Show my Email
Course Link

Joke 😝
What do 9 out of 10 people enjoy?
Gang rape.

RANDOM DOG IMAGE

Figure 6: Dog Image and Joke

```
function setCookie(name, value, expiryDays) {
       const d = new Date();
       d.setTime(d.getTime() + (expiryDays*24*60*60*1000));
       let expires = "expires="+ d.toUTCString();
       document.cookie = name + "=" + value + ";" + expires + ";path=/";
   }

   function getCookie(name) {
       let cookName = name + "=";
       let decodedCookie = decodeURIComponent(document.cookie);
       let ca = decodedCookie.split(';');
       for(let i = 0; i <ca.length; i++) {
           let c = ca[i];
           while (c.charAt(0) == ' ') {
               c = c.substring(1);
           }
           if (c.indexOf(cookName) == 0) {
               return c.substring(cookName.length, c.length);
           }
       }
       return "";
   }

   function welcomeUser() {
       const lastVis = getCookie("lastVis");
       const greetEle = document.getElementById("greetingCookie");
```

```
    if (lastVis) {
        greetEle.innerHTML = "Welcome back! Your last visit was on " + lastVis + "."
    } else {
        greetEle.innerHTML = "Welcome to my portfolio!";
    }
    const now = new Date();
    setCookie("lastVis", now.toLocaleString(), 365);
}

welcomeUser();
```