Front End Engineering-II

Project Report

Semester-IV (Batch-2022)

Resume Maker

Supervised By:

Dr. Yogesh

Submitted By:

Rajat Sharma-2210990707 (Group-20)
Prianshu Kumar-2210990681 (Group-20)
Priyanshu Bindal-2210990686 (Group-20)
Rajat Saini-2210990706 (Group-20)

Department of Computer Science and Engineering
Chitkara University Institute of Engineering & Technology,
Chitkara University, Punjab

ABSTRACT

In today's competitive job market, a standout resume is essential for career success. Our resume maker website offers a comprehensive solution tailored to meet the diverse needs of job seekers. With a vast library of customizable templates, intuitive editing tools, and expert guidance, users can effortlessly create professional resumes that highlight their unique skills and experiences. Leveraging cutting-edge technologies and artificial intelligence, our platform ensures that each resume is optimized for maximum impact, increasing the likelihood of securing coveted job interviews. Join the millions of satisfied users who have utilized our platform to elevate their professional profiles and unlock new career opportunities. Take the first step towards your dream job today with our resume maker website.

The technology stack for the project includes React.js for the frontend development, Node.js and Express.js for the backend, and MongoDB for the database. React.js will be used to build a dynamic and responsive user interface that functions smoothly on desktops, tablets, and smartphones. The backend, developed using Node.js, will handle user authentication, data processing, and business logic, while MongoDB will store user data, booking details, and content.

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1. INTRODUCTION

Introducing a resume maker website on a larger scale requires delving deeper into its significance, impact, and the comprehensive suite of features it offers. Here's a more expansive introduction:

"Welcome to Build the Best Resume, the premier destination for individuals navigating today's dynamic job market. In an era where first impressions are critical, crafting a compelling resume is more important than ever. Our platform revolutionizes the resume creation process, offering an unparalleled array of tools and resources to empower users at every stage of their career journey.

At Build the Best Resume, we understand that each individual brings a unique set of skills, experiences, and aspirations to the table. That's why our platform boasts a diverse selection of customizable templates, meticulously designed to cater to a wide range of industries and job roles. Whether you're a recent graduate taking your first steps into the professional world or a seasoned executive looking to advance your career, our intuitive interface and comprehensive editing suite ensure that your resume reflects your true potential.

But we're more than just a template repository. Our platform goes above and beyond, offering expert guidance on resume best practices, tailored recommendations for optimizing content, and even real-time feedback to help you refine your document to perfection. From crafting attention-grabbing headlines to fine-tuning the layout for maximum impact, every aspect of your resume is meticulously curated to help you stand out in a sea of applicants.

With Build the Best Resume, the days of struggling with clunky word processors and generic templates are a thing of the past. Join the millions of users who have already transformed their career prospects with resumes that command attention and open doors to new opportunities. Whether you're embarking on a new career path or aiming for the next rung on the corporate ladder, let Build the Best Resume be your trusted partner in achieving your professional goals."

1.1 BACKGROUND

The background of a resume maker website encompasses its inception, purpose, target audience, and the market need it addresses. Here's how you might outline it:

1. **Inception and Vision** :-

- The resume maker website was conceived in response to the growing need for streamlined and professional resume creation tools.

- The vision was to empower job seekers with user-friendly software that simplifies the often daunting task of crafting a compelling resume.

2. **Purpose** :-

- The primary purpose of the website is to provide users with a convenient platform to create polished and tailored resumes.

- It aims to offer templates, formatting tools, and content suggestions to help users showcase their skills and experiences effectively.

- Additionally, the website may provide features such as cover letter creation, LinkedIn profile optimization, and career advice resources.

3. **Target Audience :-**

- The target audience includes job seekers across various industries and career levels, from recent graduates to seasoned professionals.

- Freelancers, remote workers, and individuals transitioning between careers may also benefit from the website's services.

- The website may cater to both domestic and international users, offering customizable templates to suit different cultural preferences and job market norms.

4. **Market Need :-**

- The market need for the website arises from the increasingly competitive job market, where candidates must present themselves effectively to stand out to employers.

- Traditional resume creation methods, such as manual formatting in word processors, can be time-consuming and may not result in visually appealing or ATS-friendly resumes.

- The website addresses this need by offering intuitive tools and resources to help users create professional resumes efficiently, thereby increasing their chances of securing interviews and job opportunities.

1.2 OBJECTIVE

The objective of a resume builder website is to empower job seekers to create professional, tailored resumes that effectively showcase their skills, experiences, and qualifications to potential employers. These platforms aim to streamline the resume creation process, providing users with tools and resources to:

1. Create Polished Resumes: Offer professionally designed templates and layouts that ensure resumes look polished and visually appealing, helping job seekers make a positive first impression.

2. Save Time and Effort: Guide users through each section of the resume, prompting them to input relevant information and providing suggestions for content. This saves time compared to starting from scratch or using generic templates.

3. Tailor Resumes to Specific Jobs: Enable customization based on individual preferences and industry standards, allowing users to highlight specific skills, experiences, or achievements relevant to the desired job.

4. Ensure Consistent Formatting: Maintain consistent formatting throughout the resume, including fonts, spacing, and alignment, to enhance readability and professionalism.

5. Enhance Keyword Optimization: Incorporate tools that analyze job descriptions and suggest relevant keywords to include in the resume, helping tailor it to specific job postings and increase the likelihood of passing applicant tracking systems (ATS).

6. Prevent Errors: Include built-in spell checkers, grammar tools, and error alerts to help users identify and correct mistakes before finalizing their resumes, reducing the risk of submitting resumes with typos or grammatical errors.

7. Provide Professional Guidance: Offer additional resources such as resume writing guides, tips, and expert advice to help users create effective resumes, especially for those unfamiliar with resume best practices.

8. Facilitate Online Portfolio Integration: Allow users to integrate their online portfolios, LinkedIn profiles, or other professional profiles directly into their resumes, providing employers with a comprehensive overview of their skills and experiences.

9. Ensure Accessibility and Portability: Enable users to access and edit their resumes from any device with internet access, facilitating easy updates and modifications to keep resumes up-to-date.

10. Offer Cost-Effective Solutions: Provide free or low-cost basic plans, with premium features available for users who require additional customization or advanced functionality, making resume building accessible to job seekers with varying budgets.

Overall, the objective of a resume builder website is to empower job seekers with the tools, resources, and guidance they need to create effective resumes that help them stand out in a competitive job market and secure opportunities that align with their career goals.

1.3 SCOPE OF THE PROJECT

Creating a resume website can be a fantastic project to showcase your skills, experience, and personality to potential employers or clients. Here's a breakdown of the scope for such a project:

1. Purpose Definition: Clearly define the purpose of the website. Is it solely for hosting your resume, or do you want to incorporate additional features such as a portfolio section, blog, or contact form?

2. Design and Layout:
- Design a clean and professional layout that highlights your information.
- Ensure responsiveness across different devices (desktops, tablets, smartphones).
- Choose an appropriate color scheme and typography that reflects your personal brand.

3. Content Creation:
- Write a compelling bio or about me section that highlights your skills, experiences, and career goals.
- Create sections for your education, work experience, skills, certifications, and any other relevant information.
- Include downloadable versions of your resume in different formats (PDF, Word).

4. Portfolio Integration (if applicable):
- Showcase your projects, case studies, or any work samples relevant to your field.
- Provide descriptions and links to the projects, highlighting your contributions and skills utilized.

5. Contact Information:
- Include a contact form for visitors to reach out to you.
- Provide alternative contact methods such as email address and social media profiles.

6. SEO Optimization:
- Optimize your website for search engines by incorporating relevant keywords into your content and meta tags.
- Ensure proper URL structure, sitemap, and use of heading tags.

7. Technical Implementation:
- Choose a suitable platform for building your website (e.g., WordPress, Wix, Squarespace, or custom development).
- Implement necessary functionality such as form submissions, analytics tracking, and social media integration.
- Ensure the website's security measures are in place to protect your personal information.

By incorporating these elements into your resume website project, you can create a powerful online presence that effectively showcases your skills and experiences to potential employers or clients.

1.4 SIGNIFICANCE

Resume builder websites offer several significant advantages for job seekers:

1. Professional Presentation: These platforms provide templates and layouts designed by professionals, ensuring your resume looks polished and visually appealing. This professional presentation can help you stand out in a competitive job market.

2. Time-Saving: Resume builders streamline the resume creation process by guiding users through each section and providing suggestions for content. This saves time compared to starting from scratch or using generic templates in word processors.

3. Customization Options: While providing templates, resume builders also allow for customization based on individual preferences and industry standards. Users can tailor their resumes to highlight specific skills, experiences, or achievements relevant to the desired job.

4. Formatting Consistency: Consistent formatting throughout the resume is crucial for readability and professionalism. Resume builders ensure that fonts, spacing, and alignment remain consistent across sections, eliminating the risk of formatting errors.

5. Accessibility and Portability: Online resume builders enable users to access and edit their resumes from any device with internet access. This portability allows for easy updates and modifications, ensuring your resume is always up-to-date.

Overall, resume builder websites offer convenience, professionalism, and customization options that can significantly enhance the effectiveness of your job search efforts.

2. PROBLEM DEFINITION AND REQUIREMENTS

2.1 Problems

Requirement Ambiguity:

- Incomplete or vague user requirements leading to misinterpretations.
- Difficulty in defining clear specifications for all features.

Design Challenges:

- Balancing aesthetic appeal with user experience.
- Ensuring responsive design across various devices and screen sizes.

API Integration Issues:

- Complexity in integrating third-party APIs for flight and hotel bookings.
- Handling inconsistent API responses and data formats.

Performance Optimization:

- Ensuring fast load times for a content-rich website.
- Managing and optimizing media content (images, videos) for better performance.

Cross-Browser Compatibility:

- Addressing inconsistencies across different web browsers.
- Ensuring uniform functionality and appearance.

Security Concerns:

- Protecting user data from breaches.
- Implementing secure authentication and data handling practices.

Scalability:

- Designing the frontend to handle increasing traffic and data load.
- Planning for future feature expansions without major overhauls.

Team Collaboration:

- Coordinating between frontend and backend teams for seamless integration.
- Ensuring consistent communication and updates among team members.

Testing Difficulties:

- Comprehensive testing across multiple devices and browsers.
- Identifying and fixing bugs efficiently during development stages.

These challenges required meticulous planning, robust problem-solving, and effective teamwork to ensure the successful completion of the Global Trotter frontend project.

2.2 Requirements

Functional Requirements:

1. User Registration and Authentication:

- Users should be able to create accounts and log in securely.

- Authentication mechanisms like email verification or CAPTCHA should be implemented.

2. Search Functionality:

- Users should be able to search for Different Templates.

- Search results should be relevant and displayed in a user-friendly manner.

3. Content Management:

- Admins should have the ability to add, update, and delete content such as Templates and details.

- Content should be organized and easy to navigate for users.

Non-Functional Requirements:

1. Performance:

- The website should load quickly, with response times optimized for a smooth user experience.

- Server-side processing should be efficient to handle peak loads without performance degradation.

2. Usability:

- The user interface should be intuitive and easy to navigate, ensuring users can find information and complete tasks effortlessly.

- Consistency in design and layout across pages enhances usability and reduces cognitive load.

3. Scalability:

- The system should be scalable to accommodate an increasing number of users and data without compromising performance.

- Scalability measures should include horizontal scaling, load balancing, and efficient resource utilization.

4. Security:

- User data should be securely stored and transmitted using encryption protocols like HTTPS.

- Measures should be in place to prevent unauthorized access, data breaches, and other security threats.

5. Compatibility:

- The website should be compatible with various web browsers, devices, and screen sizes.

- Compatibility testing ensures a consistent user experience across different platforms.

2.2.1 TECHNOLOGY STACK

 Frontend Technologies: -

HTML (Hyper Text Markup Language) -

Structure of the web pages.

- Semantic elements to enhance accessibility and SEO.

- CSS (Cascading Style Sheets)
- Styling and layout of the web pages.
- Responsive design to ensure compatibility across various devices.

- JavaScript
- Dynamic and interactive features on the website.
- Client-side scripting for enhanced user experience.

- React.js
- Component-based architecture for building reusable UI components.
- Efficient rendering and state management with hooks and context.

 Backend Technologies:

- Next.js
- Framework for React.js providing server-side rendering (SSR) and static site generation (SSG).
- Improved performance and SEO benefits.

- MongoDB
- NoSQL database for storing user data .
- Flexible schema design to accommodate various data types.

Additional Tools:
- Version Control: Git and GitHub
- Code versioning and collaboration.
- API Integrations

This stack provides a robust, scalable, and performant solution for building the Build The Best Resume website, ensuring a seamless and engaging user experience.

3. PROJECT DESIGN/ METHODOLOGY

3.1 Algorithms Used:

1. Initialization and Navbar Setup

Import Modules and Components: Import functions and components for the navbar, menu bar, footer .

2.Toggle Menu Bar Visibility

Show and hide the menu bar when clicking the menu and close buttons.

3. Dropdown Feature of dives

Enable Collapse/Expand on Click

Toggle the visibility of content sections when clicking headers.

4. Fetch and Populate State Options

Fetch state data from an API and populate the state dropdown menu.

5.Billing Address Functionality

Add Person Details:

Dynamically add more person detail sections on clicking the "Add Guest" button.

6.Deal Timer

Create Countdown Timer:

Create and update a countdown timer that counts down to either noon or midnight.

7.Handle Errors

If there is an error during the sign-up process, you catch the error and log the error message.

8.Scroll Event for Right Bar

Sticky Right Bar on Scroll:

Make the right bar sticky when the user scrolls past a certain point and revert it when scrolling back up.

9.Offer Checkbox Functionality

Algorithm: Update the active offer and discount percentage based on the selected offer, and recalculate the price summary.

10.User Login

Algorithm: Handle user login by capturing email and password, then authenticating with Firebase. If successful, display a sign-in message and redirect to the homepage.

11.Google Sign-In

Algorithm: Handle Google Sign-In Button Click

- Prevent the default button click behaviour.
- Use sign In with Popup from Firebase Authentication with a Google provider.
- On success, alert the user and log user details.
- On failure, log the error message.

12.Email/Password Sign-Up

Algorithm: Handle Form Submission for User Sign-Up

Prevent the default form submission behaviour.

Extract the username, email, and password from form inputs.

Use create User with Email and Password from Firebase Authentication to create a new user.

On success, alert the user and redirect to the login page.

On failure, log the error message.

Some algorithms used in CSS:

Resetting Default Styles: before, after: Resets margin, sets the font family, and applies box-sizing to all elements to ensure consistent styling across different browsers.

Custom Scrollbars:

weskit-scrollbar: Customizes the appearance of scrollbars.

Hiding Spin Buttons: input-webkit-outer-spin-button, input-webkit-inner-spin-button:

Hides the spin buttons on

number inputs. Flexbox Layouts:

display: flex, flex-direction, justify-content, align-items: Used extensively to create flexible and responsive layouts.

Fixed Positioning: position: fixed: Used for the navigation bar and right sidebar to keep them in a fixed position relative to the viewport

Responsive Design:

Media queries (@media screen and ...): Adjusts styles based on different screen sizes to ensure the layout is responsive and user-friendly on various devices.

Transitions and Animations: transition, animation: Provides smooth animations for elements,

such as rotating icons and showing

loading spinners.

Box Shadow:

box-shadow: Adds shadow effects to elements for a 3D appearance.

Gradients: background: linear-gradient(...): Uses gradient backgrounds for

visual appeal.

Custom Checkbox and Radio Buttons:

Customizes the appearance of checkboxes and radio buttons for a more cohesive design.

Hover and Active States:

Hover, active: Styles elements differently when they are hovered over or active.

Forms and Inputs:

Styles form elements like inputs, buttons, and selects to ensure they fit the overall design theme.

4. RESULTS

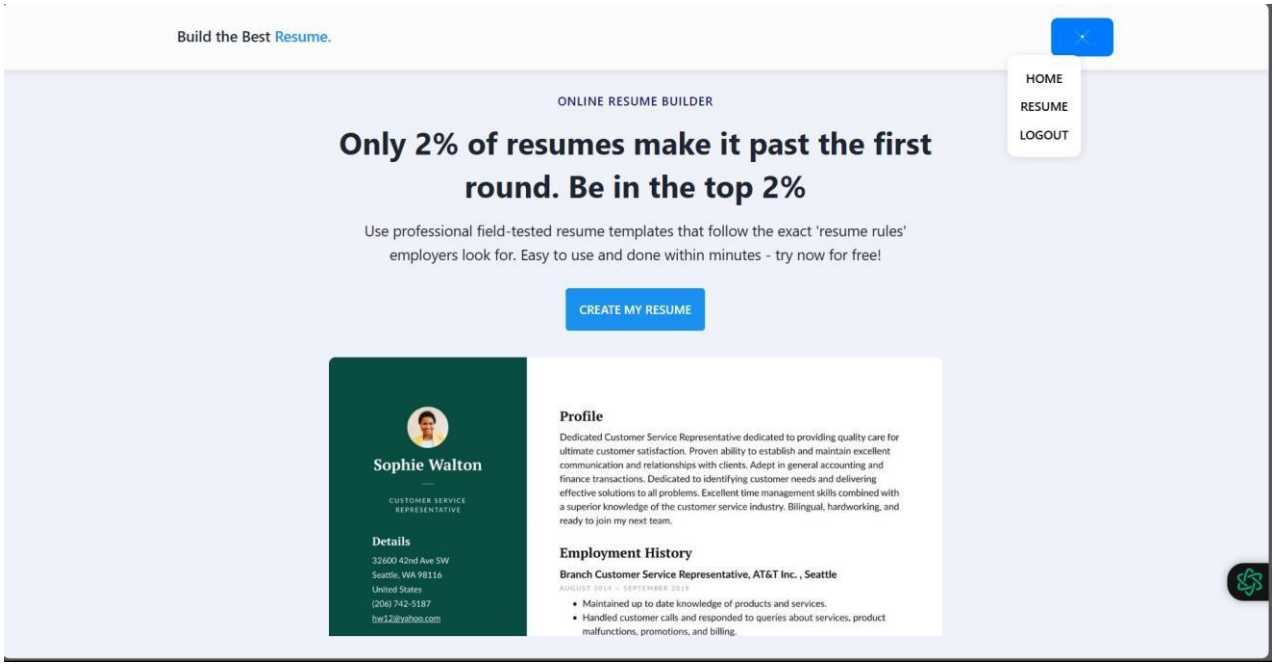


Figure 1

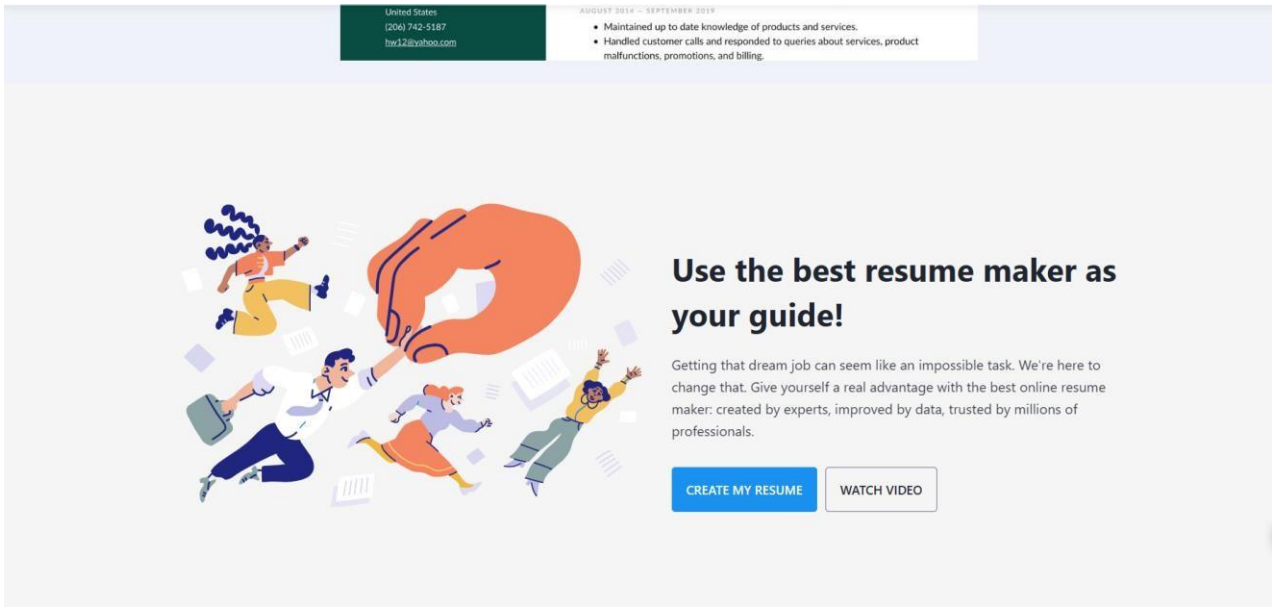
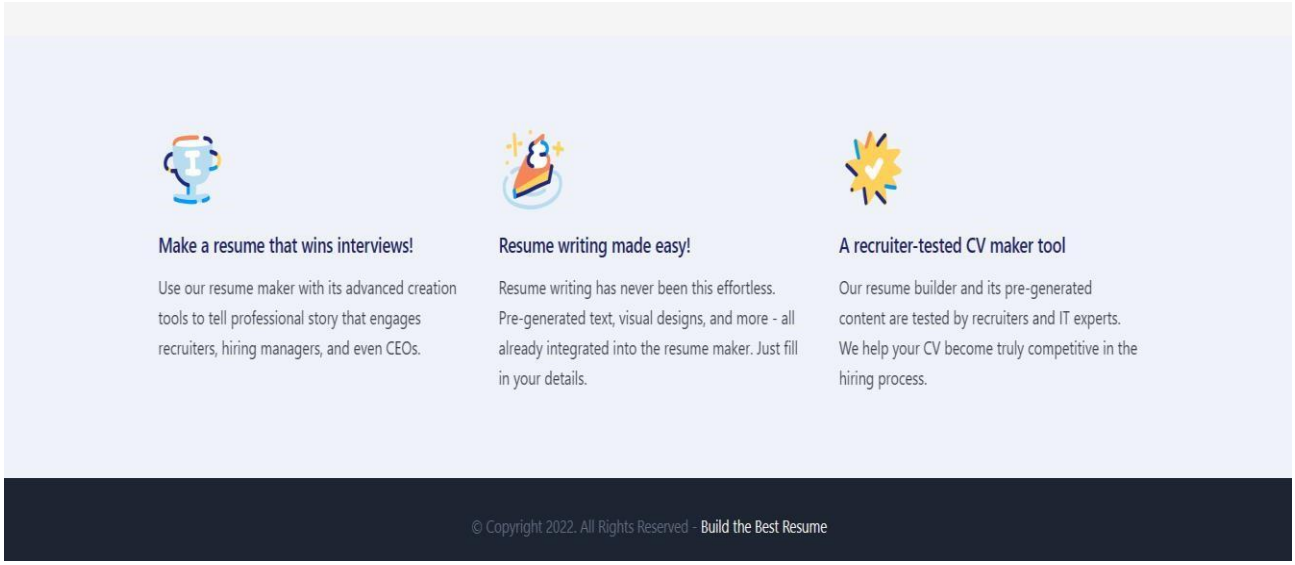


Figure 2



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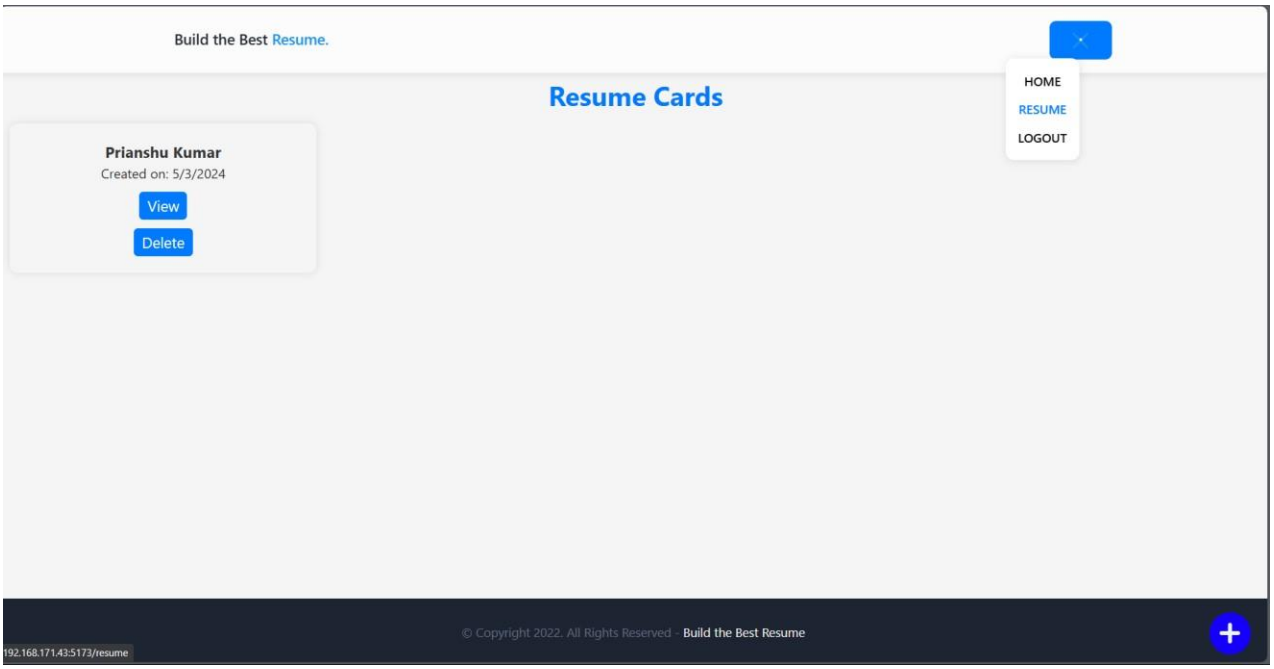

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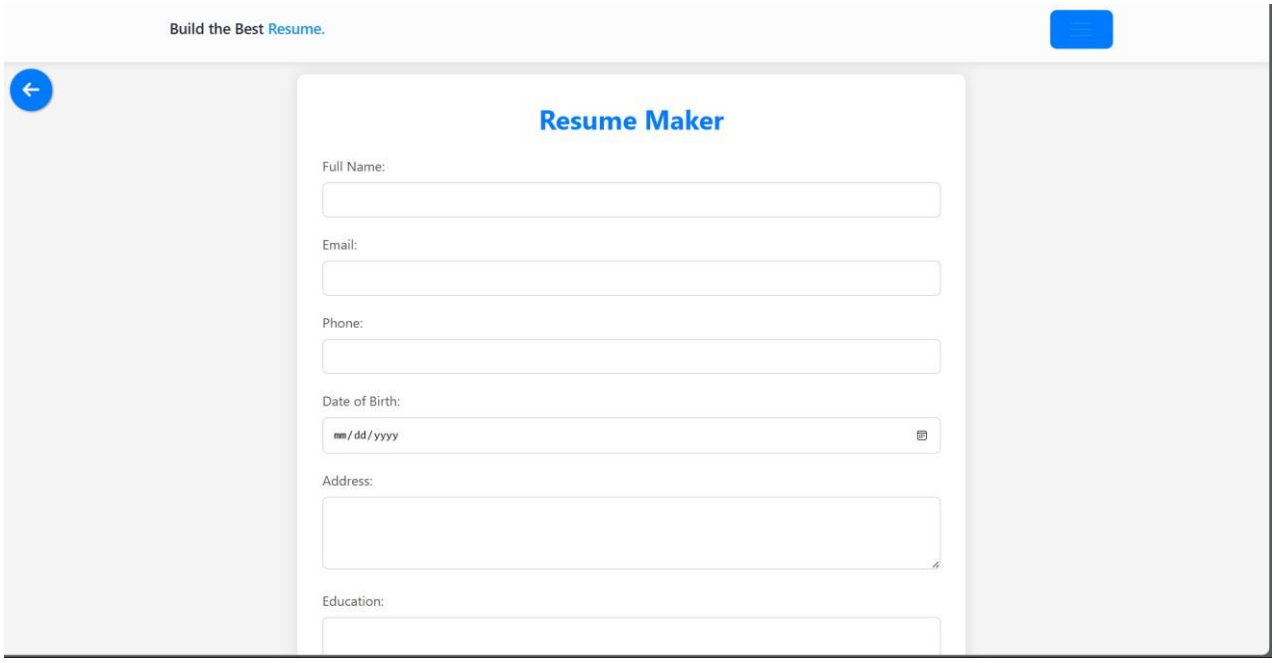

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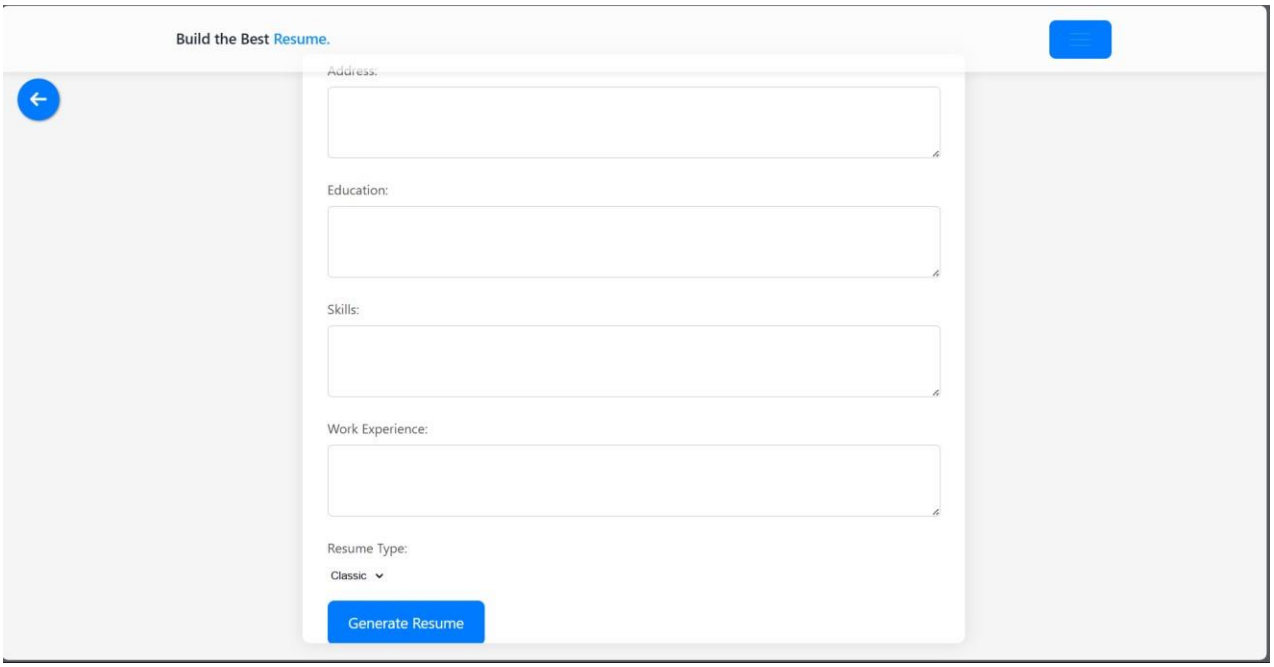

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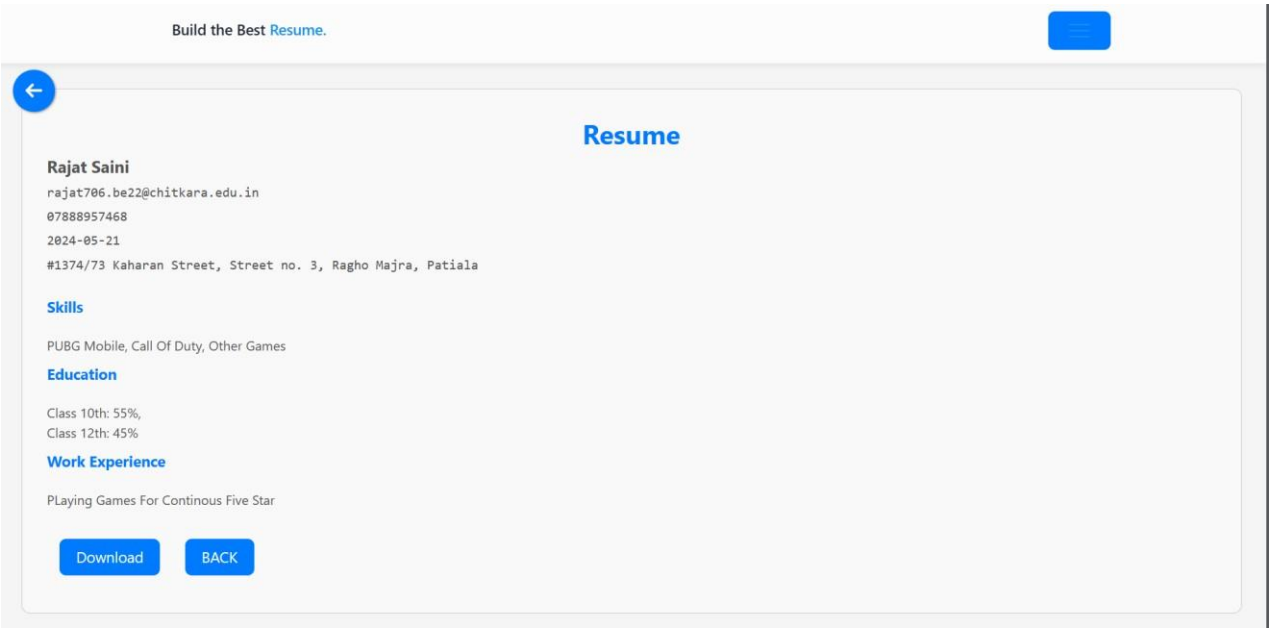

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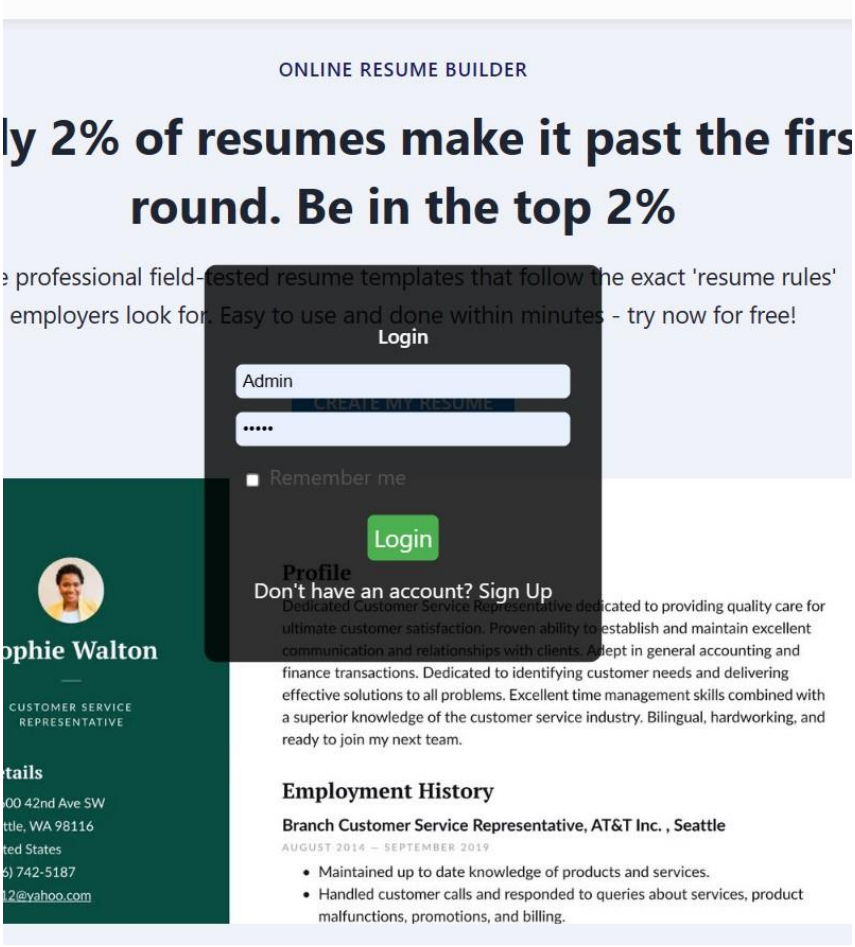

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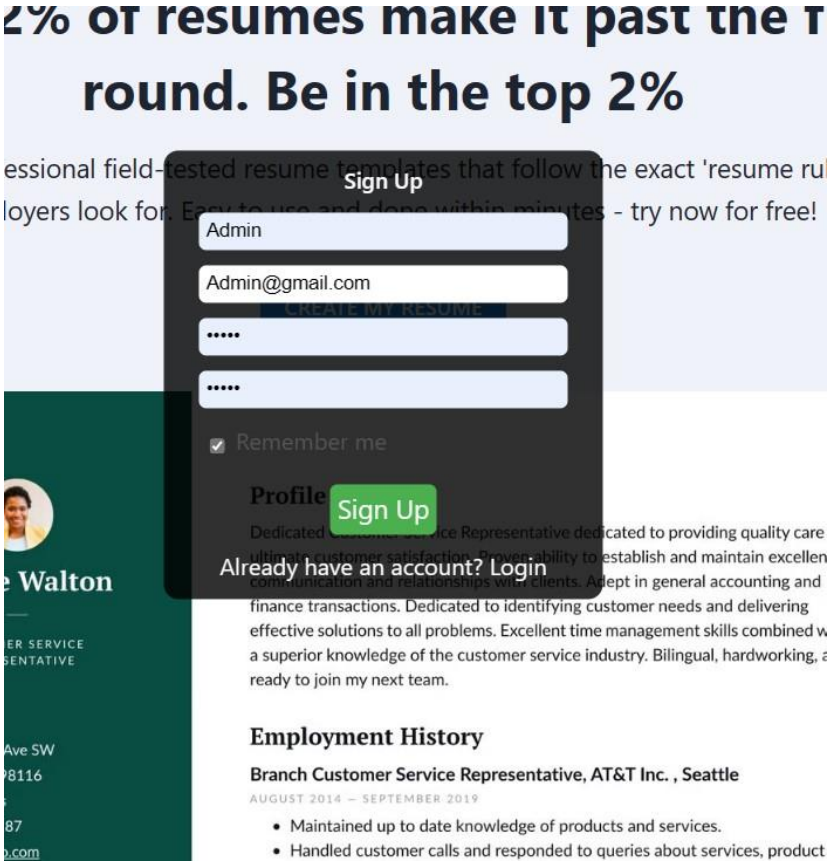
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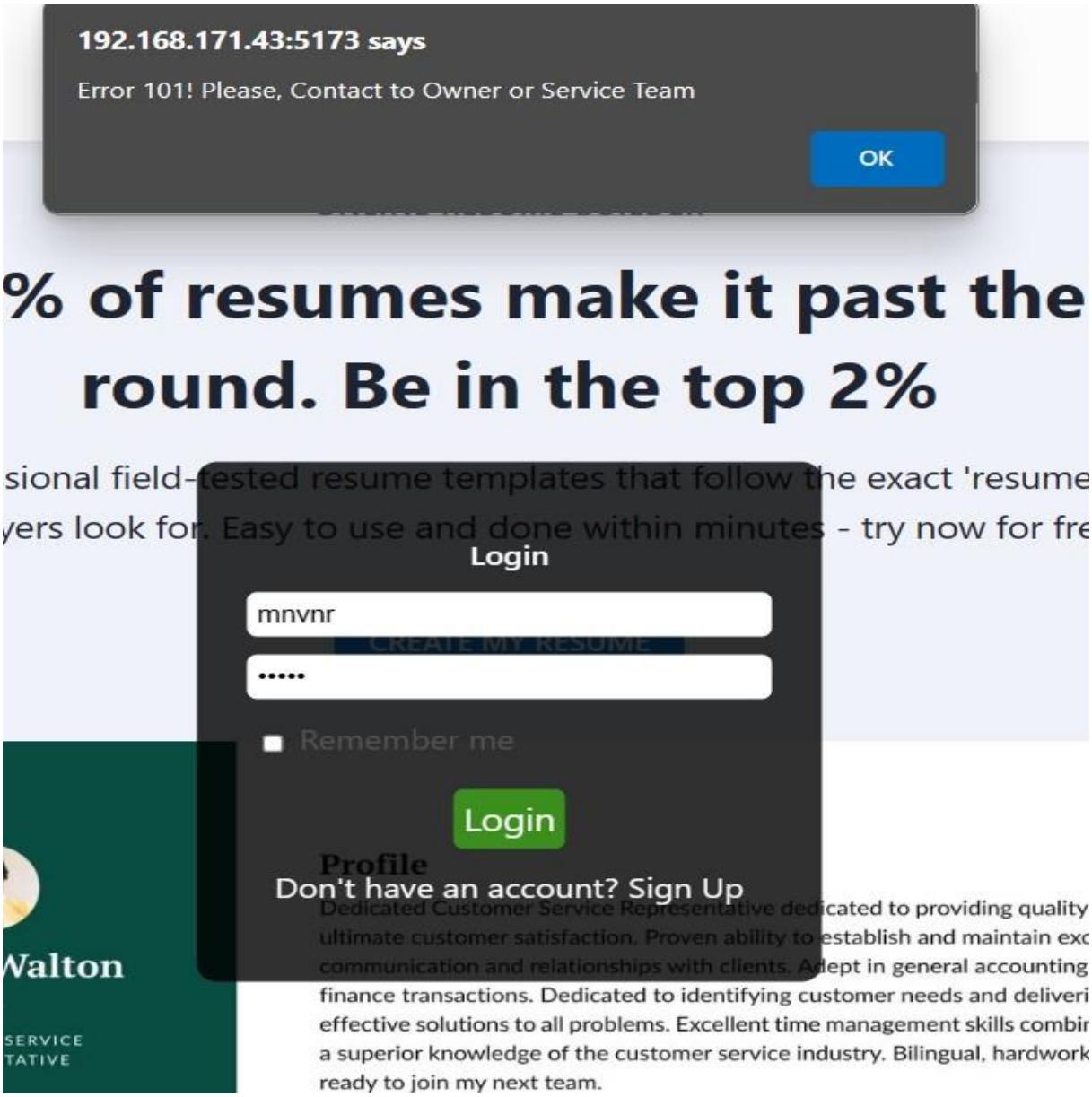
Sign Up
Admin
Admin@gmail.com
Remember me
Sign Up
Already have an account? Login
Walton
Profile
Employment History
Branch Customer Service Representative, AT&T Inc. , Seattle
AUGUST 2014 – SEPTEMBER 2019
Maintained up to date knowledge of products and services.
Handled customer calls and responded to queries about services, product

Figure 9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Login
mnvnr
Remember me
Login
Don't have an account? Sign Up
Profile
Dedicated Customer Service Representative dedicated to providing quality
ultimate customer satisfaction. Proven ability to establish and maintain exc
communication and relationships with clients. Adept in general accounting
finance transactions. Dedicated to identifying customer needs and deliveri
effective solutions to all problems. Excellent time management skills combir
a superior knowledge of the customer service industry. Bilingual, hardwork
ready to join my next team.
Walton
SERVICE
TATIVE

Figure 10

5. REFERENCES

- https://www.youtube.com/
- https://www.pexels.com/
- https://resume.io/
- https://www.resumebuilder.com/