Context: You are an accessibility expert reviewing HTML for accessibility issues. Analyze the following code in the context of WCAG (Web Content Accessibility Guidelines) 2.2, listing any issues that may violate these guidelines. You will only be analyzing the HTML, ignoring any included or missing styles and scripts.

Code:

```<!DOCTYPE html>

<html lang="ex">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Resume Maker</title>

<style>

body {

margin: 0;

padding: 0;

font-family: 'Arial', sans-serif;

background-image: url('background.jpg');

background-size: cover;

background-position: center;

color: #fff;

}

header {

background-color: #333;

padding: 15px;

text-align: center;

}

nav {

background-color: #555;

padding: 10px;

}

nav a {

color: #fff;

text-decoration: none;

padding: 10px;

margin: 0 10px;

}

section {

padding: 20px;

}

footer {

background-color: #333;

padding: 10px;

text-align: center;

position: absolute;

bottom: 0;

width: 100%;

}

button {

background-color: #4CAF50;

color: #fff; /\* Adjusted text color for better contrast \*/

padding: 10px 20px;

border: none;

border-radius: 5px;

cursor: pointer;

}

input[type="text"] {

padding: 10px;

margin: 5px 0;

width: 100%;

}

select {

padding: 10px;

margin: 5px 0;

}

h2 {

color: #333; /\* Adjusted text color for better contrast \*/

background-color: #fff; /\* Adjusted background color for better contrast \*/

padding: 10px; /\* Added padding for better spacing \*/

border-radius: 5px; /\* Added border-radius for better styling \*/

}

label {

color: #333; /\* Adjusted text color for better contrast \*/

background-color: #fff; /\* Adjusted background color for better contrast \*/

display: block; /\* Ensuring the label takes the full width \*/

padding: 5px; /\* Added padding for better spacing \*/

border-radius: 5px; /\* Added border-radius for better styling \*/

margin-bottom: 5px; /\* Adding margin for better spacing \*/

}

.icon {

width: 20px;

height: 20px;

margin-right: 5px;

}

</style>

</head>

<body>

<header>

<h1>Resume Maker</h1>

</header>

<nav>

<a onmouseover="sample()" href="#">Home</a>

<a href="#">About</a>

<a href="#">Contact</a>

</nav>

<section>

<h2>Create Your Resume</h2>

<label for="name">Name:</label>

<input type="text" id="name" placeholder="Enter your full name">

<label for="email">Email:</label>

<input type="text" id="email" placeholder="Enter your email">

<select id="experience">

<option value="entry">Entry Level</option>

<option value="mid">Mid Level</option>

<option value="senior">Senior Level</option>

</select>

<button onclick="generateResume()" style="color: rgb(255, 255, 255); background-color: rgb(76, 175, 80);">Generate Resume</button>

</section>

<footer>

<form>

<label for="username">Username:</label><br>

<input type="text" id="username" name="username"><br>

<label for="password"></label><br>

<input type="password" id="pwd" name="pwd">

<input type="radio" id="1" name="fav\_number" value="1">

<label for="1">1</label><br>

<input type="radio" id="2" name="fav\_number" value="2">

<label for="2">2</label><br>

<input type="radio" id="3" name="fav\_number" value="3">

<label for="3">3</label>

<input type="checkbox" id="vehicle1" name="vehicle1" value="Bike">

<label for="vehicle1"> I have a bike</label><br>

<input type="checkbox" id="vehicle2" name="vehicle2" value="Car">

<label for="vehicle2"> I have a car</label><br>

<input type="checkbox" id="vehicle3" name="vehicle3" value="Boat">

<label for="vehicle3"> I have a boat</label>

<input type="file" id="myfile" name="myfile">

<button type="submit">Submit</button>

</form>

<p>&copy; 2023 Resume Maker</p>

</footer>

<script>

function generateResume() {

// Add your resume generation logic here

alert('Resume generated!');

}

function sample() {

alert("hovered")

}

</script>

</body>

</html>

```

Response format:

Snippet with error: …

Location of error: …

WCAG Guideline violated: …

Detection Algorithm: …

Explanation of Error: …

Here is my analysis of the HTML code provided against WCAG 2.2 guidelines:

Snippet with error: <nav>  
Location of error: Navigation links lack text alternatives  
WCAG Guideline violated: 1.1.1 Non-text Content  
Detection Algorithm: Analyzed HTML elements and attributes for accessibility issues [[1]](https://developer.mozilla.org/en-US/docs/Learn/Accessibility/HTML)  
Explanation of Error: The navigation links do not have discernible text, violating guideline 1.1.1 which requires non-text content to have text alternatives provided. Screen reader users will not be able to understand the purpose of the links.

Snippet with error: <footer> form controls  
Location of error: Form controls lack labels and ARIA roles  
WCAG Guideline violated: 1.3.1 Info and Relationships, 4.1.2 Name, Role, Value  
Detection Algorithm: Analyzed HTML form elements and attributes for accessibility issues  
Explanation of Error: The form controls such as text inputs and radio buttons are missing labels and ARIA roles to programmatically associate them with their purpose. This violates guidelines 1.3.1 and 4.1.2 which require this for accessibility. Screen reader and low-vision users will have difficulty understanding the purpose of the controls.

Let me know if any other potential issues need explanation or if you have additional questions! I'm happy to provide more details to help improve the accessibility of this code.