

1. A description of your responsive design choices and how to trigger them.

You are responsible for creating at least two media queries based on width (combined with fluid measurements of course). You must explain how your code improves the page, not just changes it. If you used Bootstrap, that can count as an “extra” but not one of the required two media queries.

I have three media queries, one default view for mobiles(less than 800px), one view for tablets(greater than 800px), and one view for large screen(greater than 1024px). I also have a reduce motion mode for users to remove all animations by their choice.

Navigation bar:

For all my pages, I have three different layouts for navigation bars. For the mobile view, I put logo and navigation items into one column by using flex-direction: column and use justify-content: center to make sure the items are centered. For the tablet view, I put the logo and navigation items into a row by using flex-direction: row and use justify-content: center to make them close to the center and close to each other. For the large screen view, I also use flex-direction: row to make the navigation items in a row but I use justify-content: space-between to push the logo and menu items to right and left sides of the page.

Homepage:

For the main content of the homepage, I have different layouts for the three media queries. I use the grid for my about, project and resume sections. For the mobile view, I make all the sections and flip-cards stay into a column which will be easy to look through a mobile phone since users can just scroll from up to the bottom. For the tablet view, I still want to make the content stay narrow but wider than the mobile view, so I make the flip-cards in the project section into two rows, the first row contains two flip-cards and the second row contains one flip-card. For the large screen view, I want to make sections still clear in a column but the flip-cards can fill the width of the screen, so I make the project flip-cards into one row.

About page:

For the About page, the images right below the navigation bar have different sizes in different media queries. I make the images size to width: 300px and height: 200px to fit the mobile view size, width: 500px and height: 330px for the tablet view size and width: 650px and height: 430px for the large screen view

size. I also have three different layouts for the photo gallery. I use the grid for this layout since I want the layout to be more interesting than use flexbox. I have one column and nine rows for the mobile view, three columns and five rows with two large size photos and seven smaller size photos. I have five columns and three rows for the large screen view.

#### Resume page:

For the resume page, I set different sizes for the resume PDF to fit different views. I set the PDF size height: 500px and width: 375px for a mobile view, height: 800px and width: 600px for the tablets view, and height: 1200px and width: 900px for the large screen view so users can see the whole content no matter what kind of devices they use.

There are also some detail changes on each page like paddings, width, and height on small items.

2. A description of where to find your uses of grid and flexbox. In addition to the location, you must explain why your choice is the most logical choice for that layout. I expect that at least two containers will use a grid or flex or that the same container will be used on multiple pages.

#### Homepage:

For my homepage, I use one flexbox and two grid. I use a flexbox for the navigation bar because I want to make the layout different in media query views. For the mobile view and tablet view, the screen is not large, I want to make the navigation items closer to each other. For the larger screen view, the screen is wide, so I want to let the items more separate which leaves less space from the two sides. Users can target the links they want easily. For the content section, I used the grid twice. I first use the grid to set a certain space for the about, project and resume sections since I know that I will only have one flip-card for about and resume sections but three flip-cards for the project section. Inside the sections, I use the grid again because I want to make the flip-cards in a clear layout. I do not use flexbox here because it is hard to control where you want the flip-cards' position be.

#### About page:

For my About page, except the flexbox on navigation, I use the grid twice on this page. I use the grid once for the pet gallery. Since there are nine pictures, it is hard to do an auto layout by using a flexbox. When using the flexbox, the template like 3 \* 3 layout looks crowded and messy on the page, and if I drag the screen larger enough, the images will stay in one row and leave a lot of spaces on the page for other sections. To make the photos more interesting and attract people, I chose to use the grid here so I can put them into any layout and template that looks more artistic. I can also make the photo sizes change and let users focus on a few of them. Different layouts can bring fresh views to users and put more time on the pages. I also use the grid for the contact form so I can make the labels and input boxes in a certain layout and stays in a specific space.

#### Project3 page:

For my third Project page, I use the flexbox once. I use the flexbox for the GIF images at the end of the page. I use the flexbox because there are only two images in this section and hard to make different layouts outside one column and one row. The grid can make the two images in one column for the mobile view and one row for the tablet view and large screen view automatically.

3. Each page must validate on w3, Wave, and aXe. If there are errors on the page (including contrast errors) you must include an itemized list of why each error is not an issue, e.g. background image negates color contrast error. **To repeat, you may NOT have contrast errors on Wave, but aXe is okay.** (If you really like your colors, use w3 to test making them slightly darker or lighter and/or you can increase the font size.) Submit the 12 screenshots as part of your report. The 12 images should be each of the four pages via aXe, wave, and w3 validator. **Make sure to have a colleague check your site as well to ensure that the validators are working.**

**WAVE**  
web accessibility evaluation tool  
powered by WebAIM

Styles: OFF ☐ ON ☒

**Summary**

Summary Details Reference Structure Contrast

0 Errors	0 Contrast Errors
2 Alerts	2 Features
7 Structural Elements	0 ARIA

[View details](#)

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

**Zixi**  
UX/UI DESIGN

Home About Projects **RESUME**

## Resume

I love to make new friends :)

To learn more about my education history, work experience, projects and classes I have done and the technical skills that I got, check the resume below.

You are also welcome to download it as a PDF file!  
(Click on the right top corner of the resume file)

**Zixi Pan**  
(812) 369-6608 | zixipan@umich.edu

**EDUCATION**

University of Michigan, Ann Arbor, MI  
Master of Science in Information  
Fall 2019 – Spring 2021(expected)

- Major track: Data Science / Data Analytics / Computational Social Science
- Minor track: User Experience (UX) Research and Design / Human Computer Interaction (HCI) / Social Computing

Indiana University, Bloomington, IN  
Bachelor of Science in Informatics  
Graduation: December 2018

- Minors: Business and Financial Literacy
- Cognate: Business

Code

**WAVE**  
web accessibility evaluation tool  
powered by WebAIM

Styles: OFF ☐ ON ☒

**Summary**

Summary Details Reference Structure Contrast

0 Errors	0 Contrast Errors
21 Alerts	8 Features
11 Structural Elements	5 ARIA

[View details](#)

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

**Zixi**  
UX/UI DESIGN

HOME About Projects Resume

## Hello!

## Welcome to my page!

Code

**WAVE**  
web accessibility evaluation tool  
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Styles: OFF ON

**Summary**

Summary Details Reference Structure Contrast

0 Errors	0 Contrast Errors
2 Alerts	21 Features
8 Structural Elements	9 ARIA

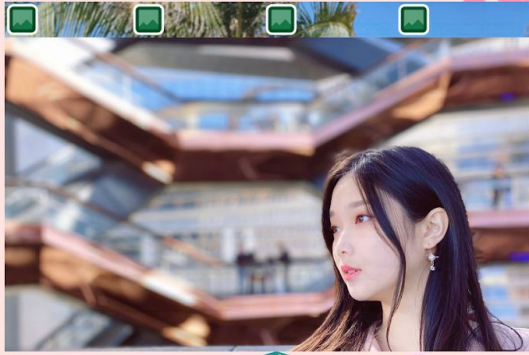
[View details](#)

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

**Zixi**  
UX/UI DESIGN

Home ABOUT Projects Resume

[ h? Hello .. ]



[Code](#)

**WAVE**  
web accessibility evaluation tool  
powered by WebAIM

Styles: OFF ON

**Summary**

Summary Details Reference Structure Contrast

0 Errors	0 Contrast Errors
3 Alerts	3 Features
7 Structural Elements	0 ARIA


[View details](#)

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

**Zixi**  
UX/UI DESIGN

Home About PROJECT Resume

## h1 Domino's - Contextual Inquiry & Consulting



SHOT ON MI  
AI TRIPLE CAMERA

[Code](#)



**WAVE** powered by WebAIM  
web accessibility evaluation tool

Styles: OFF ON

**Summary**

Summary Details Reference Structure Contrast

0 Errors	0 Contrast Errors
5 Alerts	6 Features
10 Structural Elements	0 ARIA

[View details >](#)

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

**Zixi** UX/UI DESIGN

Home About **PROJECT** Resume

## h1 Healthy Wear - Pet Health Monitor App Design

### h1 Problem and Goal

**Big Problem:**  
How to track your pets' health conditional and get pets' health information: Many owners are lack of experience and knowledge about pets illness, when pets get some chronic disease or some serious disease which may not easy to observe during earlier stage, even the pets feel uncomfortable, the owners may hard to pay attention about it immediately, which makes many pets miss the best therapy time and may cause some bad sequela during their life.

**Goal:**  
Educate pet owners about how to take care their pets better and keep track on pets' health situation all the time with alert about unexcepted health condition and advices about improve pets' wellbeing base on pets' health information.

**h1 Persona**

**Code**

**WAVE** powered by WebAIM  
web accessibility evaluation tool

Styles: OFF ON

**Summary**

Summary Details Reference Structure Contrast

0 Errors	0 Contrast Errors
2 Alerts	3 Features
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[View details >](#)

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**Zixi** UX/UI DESIGN

Home About **PROJECT** Resume

## h1 Dark Sky - Indiana Hoosier National Forest

**Dark Sky**

Created in conjunction with Hoosier National Forest

<https://www.indianapolis.com/2015/05/15/dark-sky/>

**What is light pollution?**  
Light pollution is the brightening of the night sky by man-made light sources. In the modern world, we are trading our stary nights for city lights. Light pollution doesn't just mean we can't see the constellations, though. It also has negative effects on Earth's ecosystems. Read more about light pollution and the initiative to reduce it at: <http://www.darksky.org/light-pollution/>

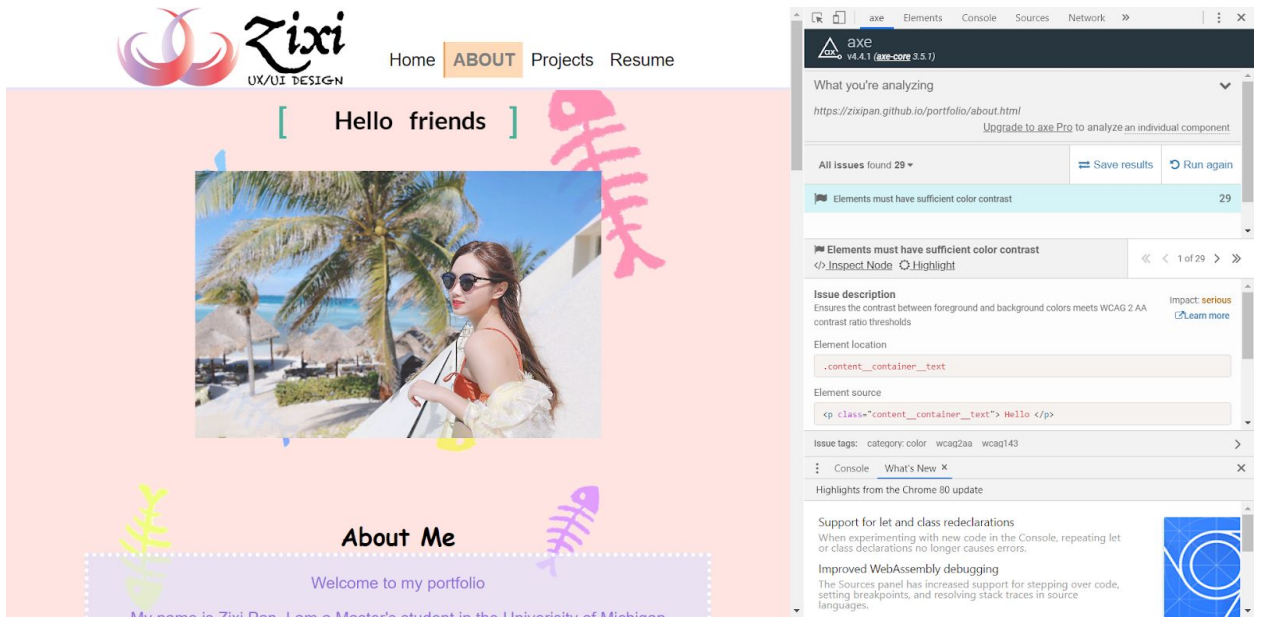
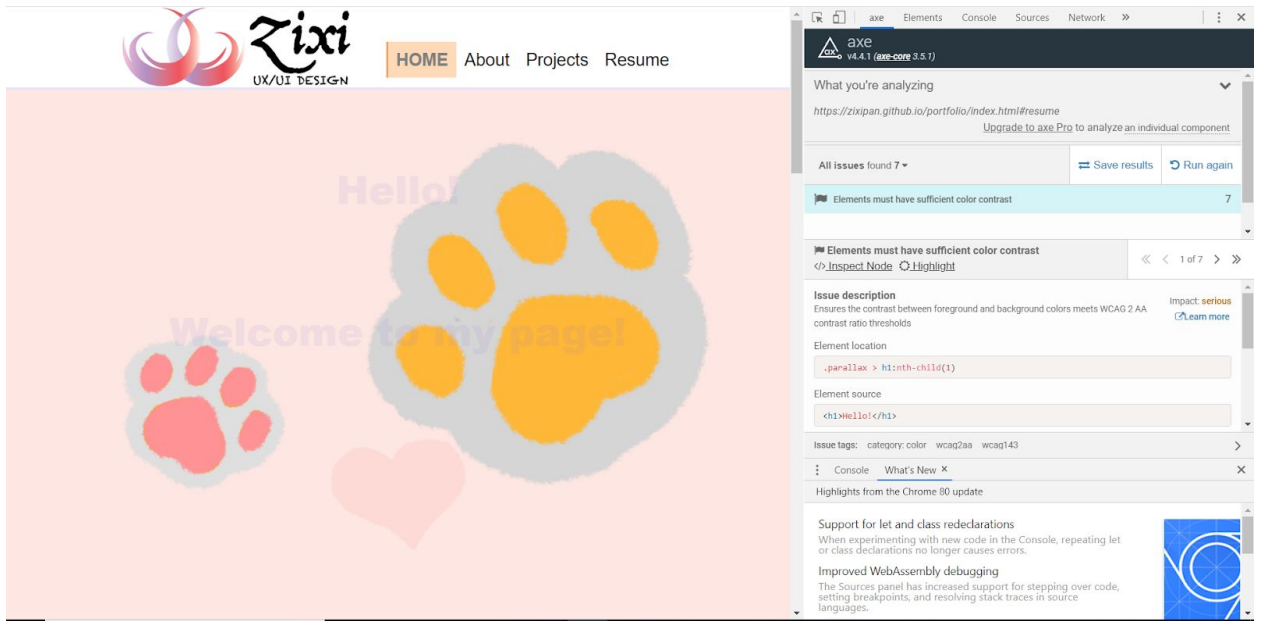
**Our System**  
Our web system stores data gathered from light sensors and displays it in various formats. Light sensor data is also available for download in CSV format so you can complete your own analysis.

**Graphs and Charts**

**Admin**

**Weather**

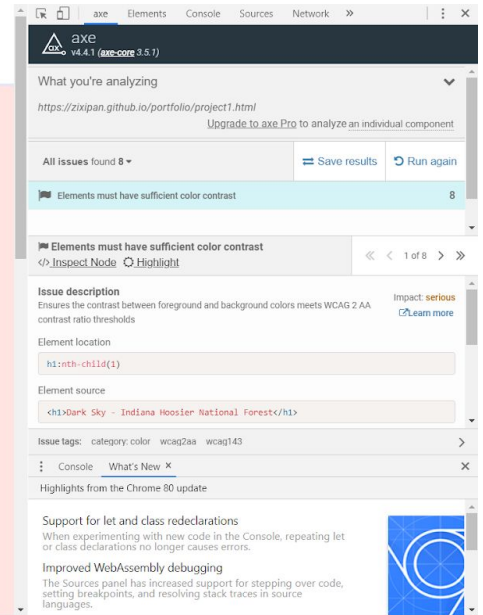
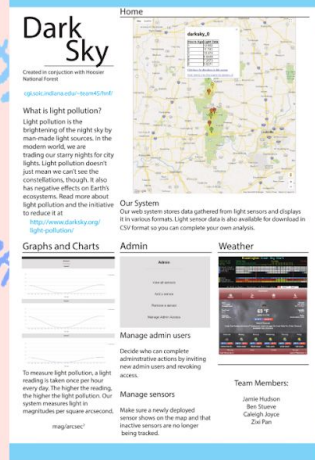
**Code**





Home About **PROJECT** Resume

## Dark Sky - Indiana Hoosier National Forest



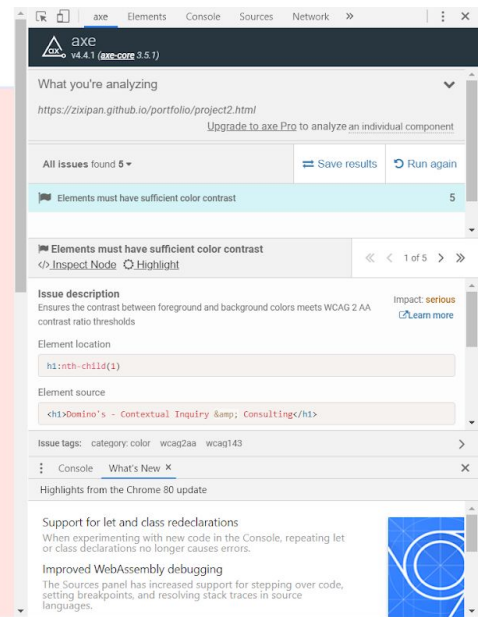
Home About **PROJECT** Resume

## Domino's - Contextual Inquiry & Consulting



### Methodological Overview

Our research was conducted over the course of three months and was divided into the following phases: background research, contextual interviews, affinity diagramming, and conjuring recommendations. To become informed about Domino's history as well as the role that a uniformed innovation space can play in its agenda, our team conducted background research reports. Using







Home About **PROJECT** Resume

## Healthy Wear - Pet Health Monitor App Design Problem and Goal

### Big Problem:

How to track your pets' health conditional and get pets' health information: Many owners are lack of experience and knowledge about pets illness, when pets get some chronic disease or some serious disease which may not easy to observe during earlier stage, even the pets feel uncomfortable, the owners may hard to pay attention about it immediately, which makes many pets miss the best therapy time and may cause some bad sequela during their life.

### Goal:

Educate pet owners about how to take care their pets better and keep track on pets' health situation all the time with alert about unexcepted health condition and advices about improve pets' wellbeing base on pets' health information.

## Persona



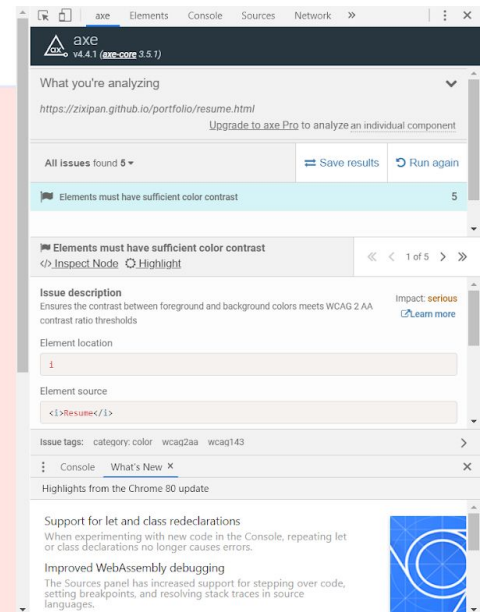
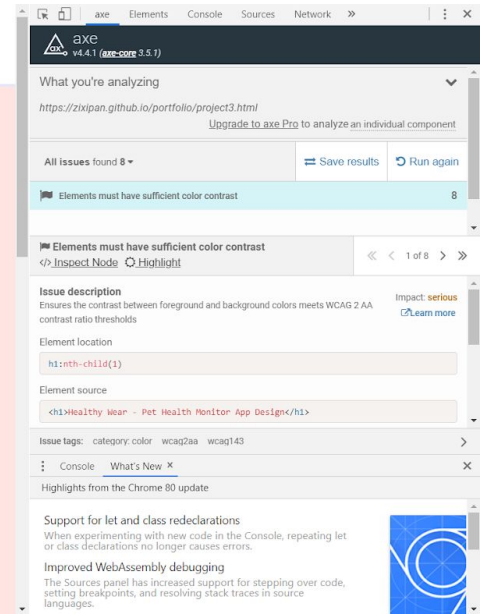
Home About Projects **RESUME**

## Resume

I love to make new friends :)

To learn more about my education history, work experience, projects and classes I have done and the technical skills that I got, check the resume below.

You are also welcome to download it as a PDF file!  
(Click on the right top corner of the resume file)



**Frames must be tested with axe-core.** This error only appears from the Firefox's axe validator and the professor waived this error:

Question History:

🚩 Frames must be tested with axe-core1

🚩 Frames must be tested with axe-core

</> Inspect Node Highlight

<<< < 1 of 1 > >>>

Issue description

Ensures <iframe> and <frame> elements contain the axe-core script

Impact: **critical**

[Learn more](#)

Element location

iframe

portfolio

~ An instructor (Jane Im) thinks this is a good question ~

edit · good question | 2

Updated 1 day ago by Zixi Pan (Anon. Helix to classmates)

S the students' answer, where students collectively construct a single answer

Click to start off the wiki answer

I the instructors' answer, where instructors collectively construct a single answer

You can ignore that error. It looks like they want you to upgrade and I am not going to required that at this point in the term. (You can put in the documentation that I waived this error.)

undo thanks | 1

Updated 15 hours ago by Colleen van Lent

## Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <https://zixipan.github.io/portfolio/index.html>

Checker Input

Show ☐ source ☐ outline ☐ image report

Check by address ▾

<https://zixipan.github.io/portfolio/index.html>

Document checking completed. No errors or warnings to show.

Used the HTML parser. Externally specified character encoding was utf-8.  
Total execution time 71 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 20.3.8

## Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <https://zixipan.github.io/portfolio/about.html>

Checker Input

Show ☐ source ☐ outline ☐ image report

Check by address ▾

<https://zixipan.github.io/portfolio/about.html>

Document checking completed. No errors or warnings to show.

Used the HTML parser. Externally specified character encoding was utf-8.  
Total execution time 74 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 20.3.8

## Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <https://zixipan.github.io/portfolio/project1.html>

Checker Input

Show ☒ source ☐ outline ☐ image report

Check by

Document checking completed. No errors or warnings to show.

Used the HTML parser. Externally specified character encoding was utf-8.  
Total execution time 52 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 20.3.8

## Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <https://zixipan.github.io/portfolio/project2.html>

Checker Input

Show ☒ source ☐ outline ☐ image report

Check by

Document checking completed. No errors or warnings to show.

Used the HTML parser. Externally specified character encoding was utf-8.  
Total execution time 178 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 20.3.8

## Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <https://zixipan.github.io/portfolio/project3.html>

Checker Input

Show ☐ source ☐ outline ☐ image report

Check by

Document checking completed. No errors or warnings to show.

Used the HTML parser. Externally specified character encoding was utf-8.  
Total execution time 47 milliseconds.

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## Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <https://zixipan.github.io/portfolio/resume.html>

Checker Input

Show ☐ source ☐ outline ☐ image report

Check by

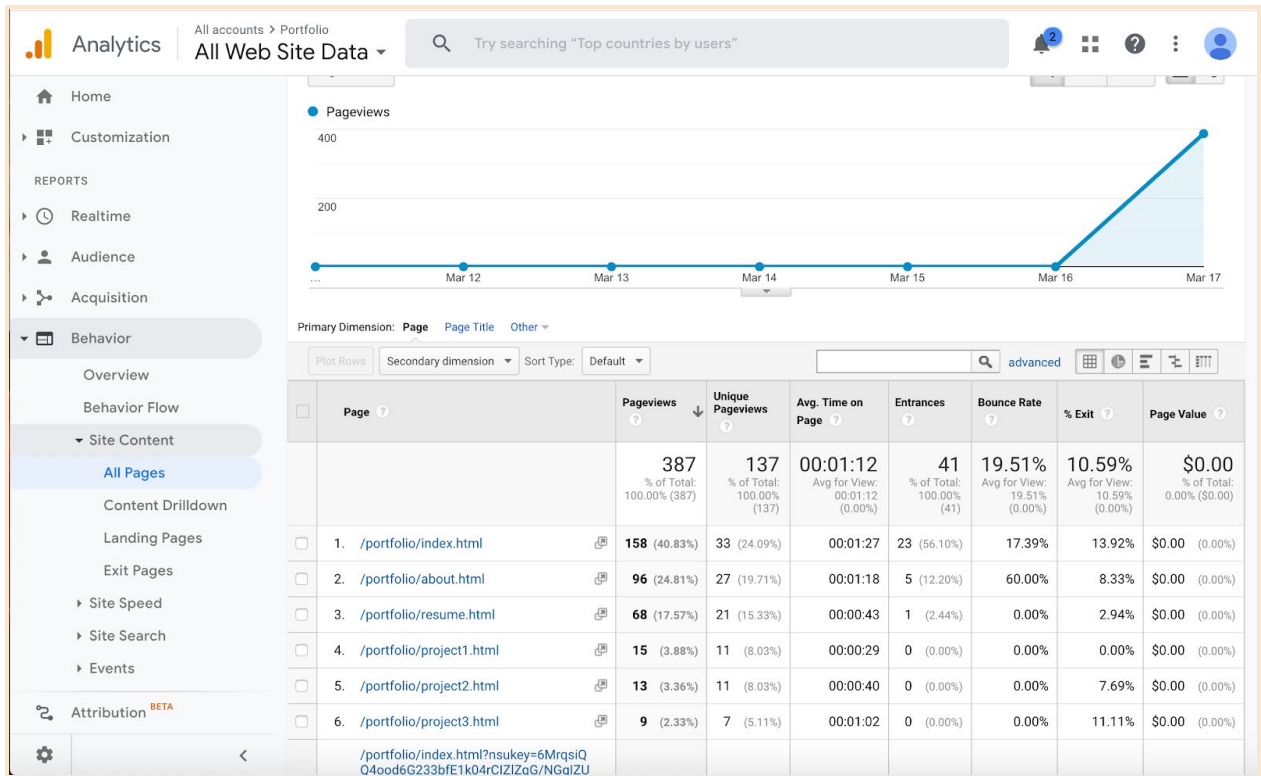
Document checking completed. No errors or warnings to show.

Used the HTML parser. Externally specified character encoding was utf-8.  
Total execution time 152 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 20.3.8

4. Include a screenshot of the working Google Analytics for all four pages.





## 5. Demo:

### 1) What you did extra:

I draw all the flip-card cover images, logos, cursor icons and all background images by myself. I made the cursor image changed on my website and when hovering the links. I made an animation loading page for all HTML including JQuery codes. I use HTML, CSS, and JQuery to delay all animations until the page completely loaded. I made a flashing welcome sentence, automatically changed images animation and also image overlay for the photo gallery. I use an iframe attribute to do my resume page so that users can check the PDF file and also download it.

### 2) What resources you used:

For the loading page: [https://www.w3schools.com/howto/howto\\_css\\_loader.asp](https://www.w3schools.com/howto/howto_css_loader.asp),  
<https://www.youtube.com/watch?v=gttmqvZ4kYc>,  
<https://codepen.io/search/pens?q=loading+page>

For the Iframe: [https://www.w3schools.com/html/html\\_iframe.asp](https://www.w3schools.com/html/html_iframe.asp)

For the Image Overlay:

[https://www.w3schools.com/howto/howto\\_css\\_image\\_overlay\\_title.asp](https://www.w3schools.com/howto/howto_css_image_overlay_title.asp)

For the Cursor:

<https://blog.csdn.net/xuelang532777032/article/details/52754168>

3) What you learned: I learned more ways to animate text and images. I learned a little bit about the JQuery logic. I learned how to hidden or show up some sections at a certain time. I learned how to change the icon for the cursor.

4) What didn't work: I find that when doing the flip-card for users who use the tab button on the keyboards, the flip-card will flip over to the front side which makes the link invisible even it had been selected. I am thinking of finding a better way to solve this problem like making the whole flip-card as a link.