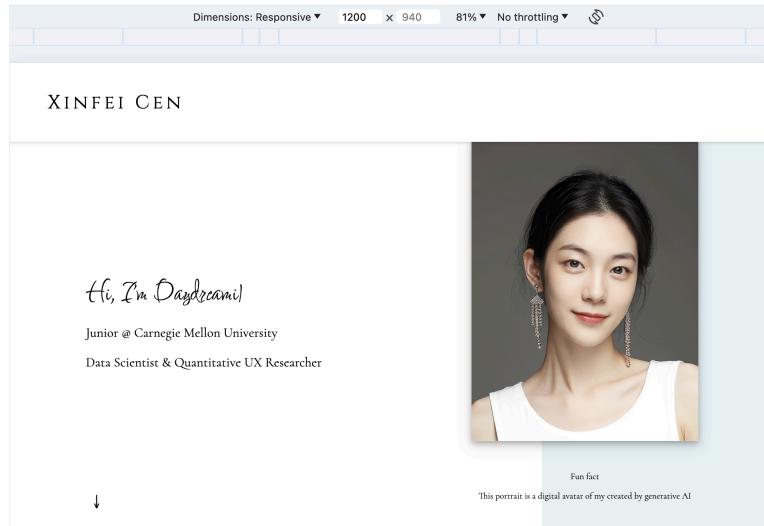
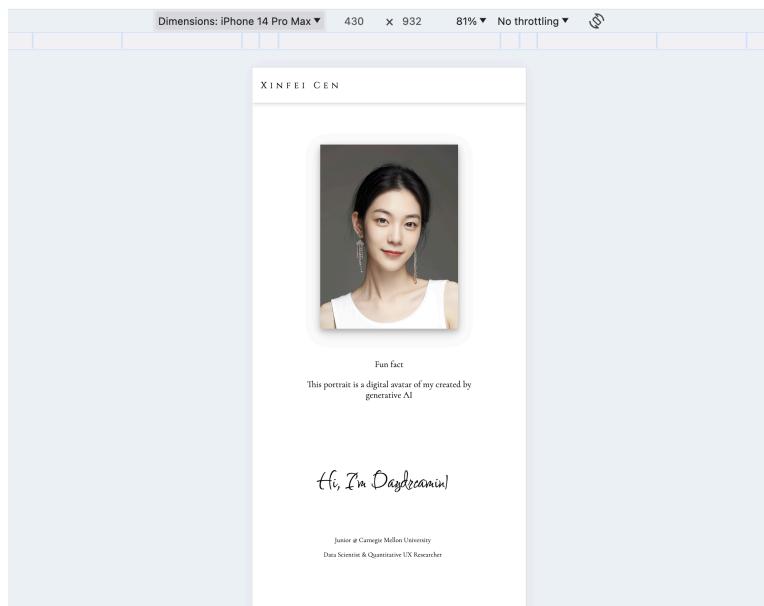


Responsive Design

screen size 1: 1200 x 940



screen size 2: 430 x 932



Accessible

main.html:

The following apply to the entire page:

Summary

Address: <https://xinfeic.github.io/pui-homework/final/>

Styles: OFF ON

Errors: 0

Contrast Errors: 0

Alerts: 10

Features: 14

Structural Elements: 1

ARIA: 1

View details >

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

XINFEI CEN

Hi, I'm Xinfei!

Junior @ Carnegie Mellon University

Data Scientist & Quantitative UX Researcher

Avatar

Fun fact

This portrait is a digital avatar of me created by generative AI

↓

</>
Code

The following apply to the entire page:

Details

Address: <https://xinfeic.github.io/pui-homework/final/>

Styles: OFF ON

Alerts: 10

- 1 X No heading structure
- 9 X Possible heading

Features: 14

- 13 X Alternative text
- 1 X Language

Structural Elements: 1

- 1 X Header

ARIA: 1

XINFEI CEN

Hi, I'm Mode!

Junior @ Carnegie Mellon University

Data Scientist & Quantitative UX Researcher

Avatar

Fun fact

This portrait is a digital avatar of me created by generative AI

↓

</>
Code

Project_gallery_csd.html

The following apply to the entire page:


WAVE
 web accessibility evaluation tool
 powered by

 Address: <https://xinfeic.github.io/pui-homework/final->

Styles: OFF ON

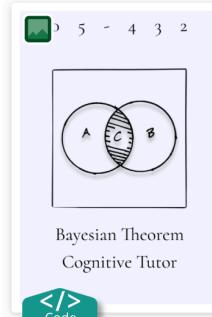
FEATURED PROJECTS - PROGRAMMING / DATA SCIENCE

 CATEGORIES ▾

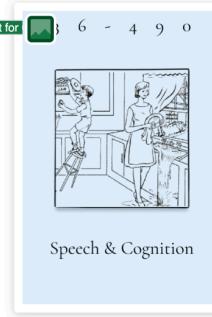
BACK TO MAIN PAGE



The Jumper Maze



Bayesian Theorem
Cognitive Tutor



Speech & Cognition

 Code

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

The following apply to the entire page:


WAVE
 web accessibility evaluation tool
 powered by

 Address: <https://xinfeic.github.io/pui-homework/final->

Styles: OFF ON

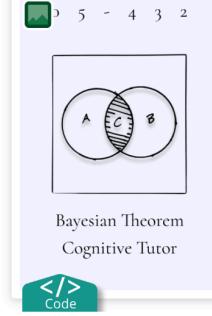
FEATURED PROJECTS - PROGRAMMING / DATA SCIENCE

 CATEGORIES ▾

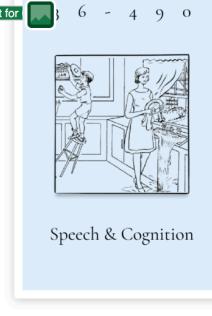
BACK TO MAIN PAGE



The Jumper Maze



Bayesian Theorem
Cognitive Tutor



Speech & Cognition

 Code

Details

Summary Details Reference Order Structure Contrast

- 1 Alerts**
 - 1 X No heading structure 
- 4 Features**
 - 3 X Alternative text 
 - 1 X Language 
- 3 Structural Elements**
 - 2 X Unordered list 
 - 1 X Navigation 

If an icon does not appear within the page, turn off Styles above to view it.

Project_gallery_design.html

The following apply to the entire page:


WAVE
 web accessibility evaluation tool
 powered by
[WebAIM](#)

Address: [irk/final-project/project_gallery_design.html](#)

Styles: OFF ON

Summary

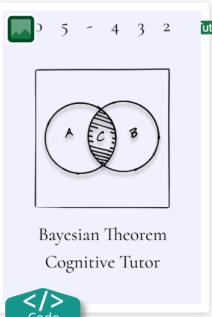
Category	Count
Errors	0
Contrast Errors	0
Alerts	1
Features	5
Structural Elements	3
ARIA	0

[View details >](#)

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

FEATURED PROJECTS - UX-DESIGN

 Water or Coke

 Bayesian Theorem Cognitive Tutor

 Bias Buster

[BACK TO MAIN PAGE](#)

The following apply to the entire page:


WAVE
 web accessibility evaluation tool
 powered by
[WebAIM](#)

Address: [https://xinfec.github.io/pui-homework/final-C](#)

Styles: OFF ON

Details

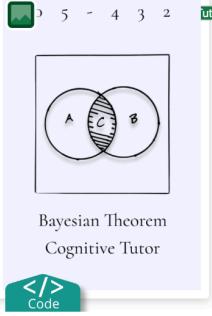
Category	Count
Alerts	1
Features	5
Structural Elements	3

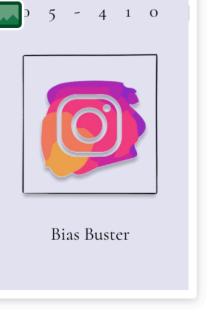
- 1 Alerts
 - 1 X No heading structure
- 5 Features
 - 4 X Alternative text
 -
 -
 -
 -
 - 1 X Language
- 3 Structural Elements
 - 2 X Unordered list
 -
 -
 - 1 X Navigation

If an icon does not appear within the page, turn off Styles above to view it.

FEATURED PROJECTS - UX-DESIGN

 Water or Coke

 Bayesian Theorem Cognitive Tutor

 Bias Buster

[BACK TO MAIN PAGE](#)

Project_gallery_others.html

The following apply to the entire page:

FEATURED PROJECTS - OTHERS

[BACK TO MAIN PAGE](#)

The following apply to the entire page:

FEATURED PROJECTS - OTHERS

[BACK TO MAIN PAGE](#)

Part 1

My personal website aims to serve as a special place where I introduce myself and share the many projects I have worked on at CMU. The main goal of this website is to be both a naive digital portfolio and a space where I can show my academic and creative adventures. This platform lets visitors see a wide

range of project-based courses and activities I have participated in, which demonstrate the skills, knowledge, creativity, and innovation that CMU's exciting academic environment has helped me develop.

In the main and "About Me" sections, visitors can scroll through and get to know me better. This part includes a short introduction about myself, some of my personal photos, and pictures that I have taken, all put together to make the website not just informative but also friendly and visually interesting. On the other hand, the "Featured Projects" section is designed to be interactive and engaging. Here, visitors can scroll through an interactive timeline that arranges my projects by time. Each project is shown on a card that users can click to find out more details, like what the project is about, the technologies used, the challenges faced, and the results achieved. This section shows how I have applied my theoretical knowledge to real-world situations, which could be very interesting to other students, job recruiters, and anyone curious about my experience.

My website aims to reach a wide audience, from my friends to potential future employers, essentially anyone interested in getting to know more about me and my past experience. By presenting my projects and experiences in a simple and engaging way, I hope to connect with people who have the same endeavor as me.

Part 2

<p>XINFEI CEN</p> <p>ABOUT ME</p> <p>Apart from my curriculum, as a research intern at CMU's General, my research interest</p> <p>Currently majoring in Statistics and Machine Learning with Human-Computer Interaction, I'm drawn to the intersection of data science, HCI and psychology for quantitative UX related research. My research interests include AI in cognitive neuroscience and AI in multimodal personalization in design, offering experiences uniquely shaped by human-centered data science.</p>	<p>XINFEI CEN</p> <p>t6, Zin Co Junior @ Carnegie Mellon University Data Scientist & Quantitative UX Researcher</p> <p>For her</p> <p>This portrait is a digital version of a photo created by generative AI</p>	<p>Click on the headings to back to the top of the website</p>
<p>XINFEI CEN</p> <p>ABOUT ME</p> <p>Apart from my curriculum, as a research intern at CMU's General, my research interest</p> <p>Currently majoring in Statistics and Machine Learning with Human-Computer Interaction, I'm drawn to the intersection of data science, HCI and psychology for quantitative UX related research. My research interests include AI in cognitive neuroscience and AI in multimodal personalization in design, offering experiences uniquely shaped by human-centered data science.</p>	<p>XINFEI CEN</p> <p>ABOUT ME</p> <p>Apart from my curriculum, as a research intern at CMU's General, my research interest</p> <p>Currently majoring in Statistics and Machine Learning with Human-Computer Interaction, I'm drawn to the intersection of data science, HCI and psychology for quantitative UX related research. My research interests include AI in cognitive neuroscience and AI in multimodal personalization in design, offering experiences uniquely shaped by human-centered data science.</p>	<p>Hover over the image to reveal the description</p>

<p>2021 →</p> <p>2022 →</p> <p>VIEW MORE →</p> <p>1 5 - 1 1 2 The Jumper Maze</p> <p>6 6 - 1 3 1 Water or Coke</p>	<p>2023 →</p> <p>2024 →</p> <p>VIEW MORE →</p> <p>0 5 - 4 1 0 Bias Buster</p> <p>X H a c k</p> <p>3 6 - 4 9 0 Speech & Cognition</p> <p>0 5 - 4 1 0 Bias Buster</p> <p>Mood Mate</p> <p>3 6 - 4 9 0 Speech & Cognition</p>	<p>Right-scroll to reveal more project</p>
<p>2024 →</p> <p>VIEW MORE →</p> <p>0 5 - 4 1 0 Bias Buster</p> <p>X H a c k</p> <p>3 6 - 4 9 0 Speech & Cognition</p>	<p>2024 →</p> <p>VIEW MORE →</p> <p>0 5 - 4 1 0 Bias Buster</p> <p>Mood Mate</p> <p>3 6 - 4 9 0 Speech & Cognition</p>	<p>Hover over the project card to simulate a micro-interaction</p>
<p>2024 →</p> <p>VIEW MORE →</p> <p>0 5 - 4 1 0 Bias Buster</p> <p>X H a c k</p> <p>3 6 - 4 9 0 Speech & Cognition</p>	<p>36-490 SPEECH & LANGUAGE LONGITUDINAL STUDY</p> <p>This research utilizes data from the 2010 Wisconsin Longitudinal Study and 2000 audio samples from the Cookie Theft picture task, employing regression analysis and machine learning to predict individuals' future cognitive status—whether normal or impaired—based on their language samples from a decade prior.</p> <p>#StatisticalAnalysis #MachineLearning #CognitiveScience</p> <p>VIEW MORE →</p>	<p>Click on the card to open a pop-up window</p>
<p>36-490 SPEECH & LANGUAGE LONGITUDINAL STUDY</p> <p>This research utilizes data from the 2010 Wisconsin Longitudinal Study and 2000 audio samples from the Cookie Theft picture task, employing regression analysis and machine learning to predict individuals' future cognitive status—whether normal or impaired—based on their language samples from a decade prior.</p> <p>#StatisticalAnalysis #MachineLearning #CognitiveScience</p> <p>VIEW MORE →</p>	<p>FEATURED PROJECTS - PROGRAMMING / DATA SCIENCE</p> <p>CATEGORIES ▾</p> <ul style="list-style-type: none"> PROGRAMMING / DATA SCIENCE UX DESIGN OTHERS <p>BACK TO MAIN PAGE</p> <p>1 5 - 1 1 2 The Jumper Maze</p> <p>0 5 - 4 3 2 Bayesian Theorem Cognitive Tutor</p> <p>3 6 - 4 9 0 Speech & Cognition</p>	<p>Click on any of the hashtags to navigate to a gallery filtered by categories</p>
<p>FEATURED PROJECTS - PROGRAMMING / DATA SCIENCE</p> <p>CATEGORIES ▾</p> <ul style="list-style-type: none"> PROGRAMMING / DATA SCIENCE UX DESIGN OTHERS <p>BACK TO MAIN PAGE</p> <p>1 5 - 1 1 2 The Jumper Maze</p> <p>0 5 - 4 3 2 Bayesian Theorem Cognitive Tutor</p> <p>3 6 - 4 9 0 Speech & Cognition</p>	<p>FEATURED PROJECTS - UX-DESIGN</p> <p>CATEGORIES ▾</p> <p>BACK TO MAIN PAGE</p> <p>6 6 - 1 3 1 Water or Coke</p> <p>0 5 - 4 3 2 Bayesian Theorem Cognitive Tutor</p> <p>0 5 - 4 1 0 Bias Buster</p>	<p>Switch between categories through the drop-down box</p>



Part 3

I used **Typed.js** on my website to create a dynamic and engaging introduction on my main page. This JavaScript library allows for animated sequences where text is typed, deleted, and retyped, making the homepage more lively compared to a static display. I integrated Typed.js by linking the necessary JavaScript file in my HTML and setting up the animation with a new Typed() function in the script, where I defined a list of descriptive words about myself and my interests. This feature adds a layer of creativity and fun, enhancing user interaction and effectively conveying my personality and professional focus.

Part 4

In the initial phase of developing my website, I experimented with both horizontal and vertical layouts. Following user testing with potential users, I decided on a vertical design. Throughout the development process, I consistently engaged users to test new features and identify any blind spots that might have eluded my expertise. One significant change was the removal of direct links to specific project pages, which unfortunately required special environments. Instead, I introduced hashtags to signify the project domains, addressing accessibility issues reported by users. The mobile layout also underwent a complete redesign to improve the usability of the 'About Me' page on smaller screens. Additionally, I highly value peer feedback during lab sessions. Consequently, I have incorporated suggestions regarding font size and color contrast, opting for larger fonts and higher contrast colors to boost readability and visual appeal. I also made hashtags clickable, allowing users to filter projects by domain.

Part 5

One of the major challenges I faced was the layout of the 'About Me' page. Not using a grid structure significantly complicated the design process, as it required hardcoded positions, which is inherently challenging despite its seemingly straightforward approach. Another challenge that I faced was introducing a reusable pop-up window, a feature not previously covered in our lectures. It's a bit challenging especially because I tried to develop this using JavaScript to create a modal that can be seamlessly integrated and reused across various projects.