

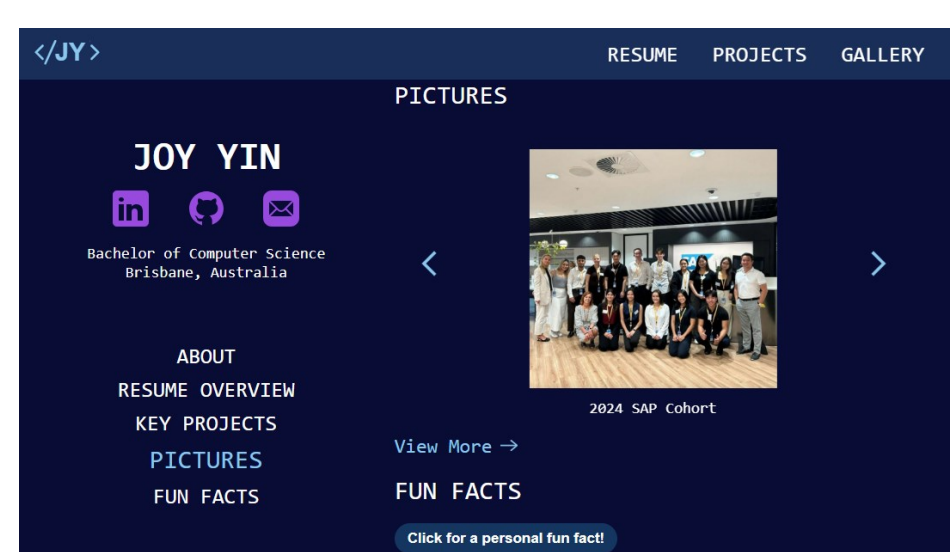
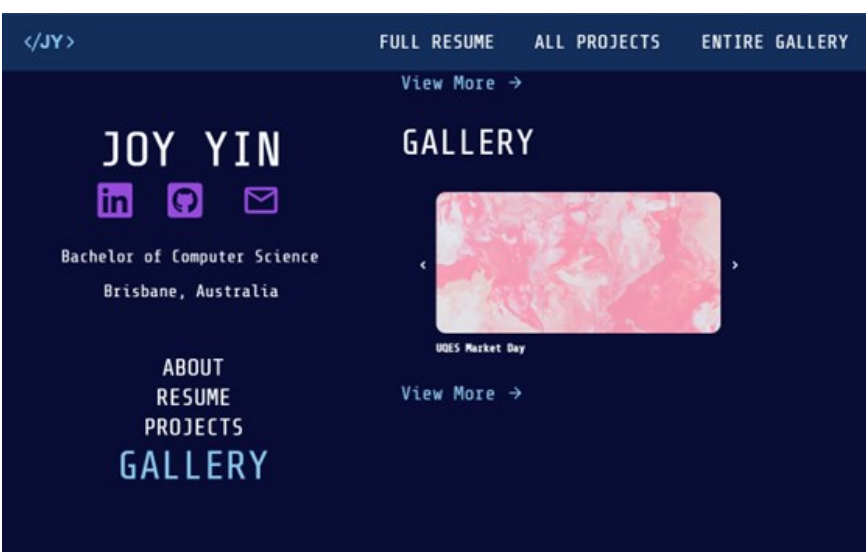
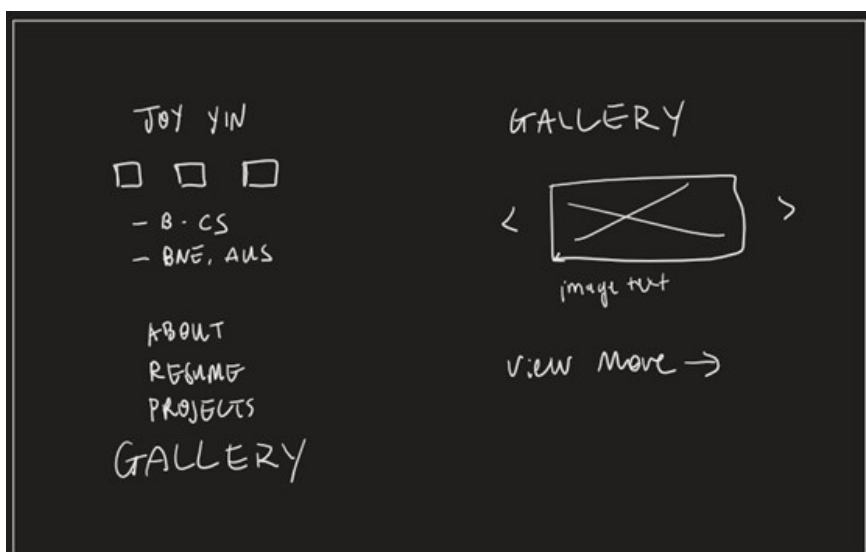
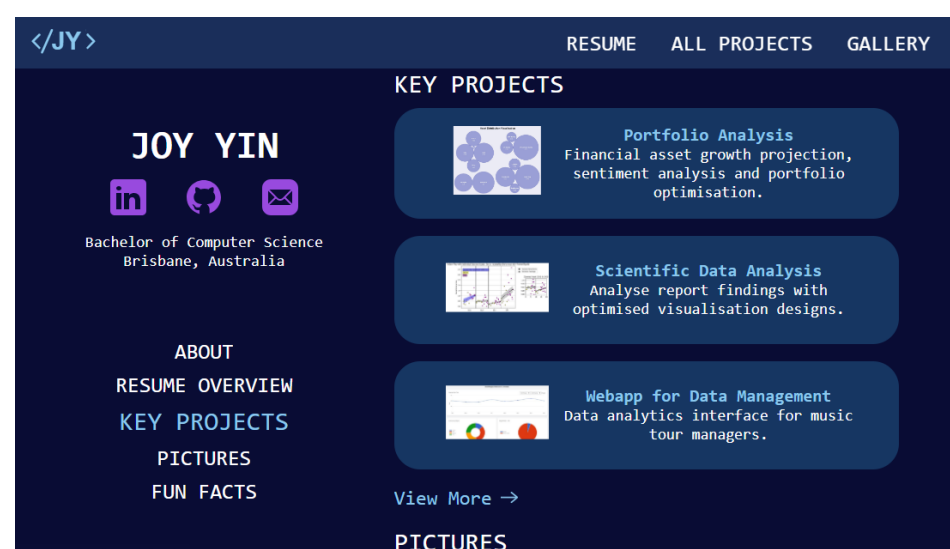
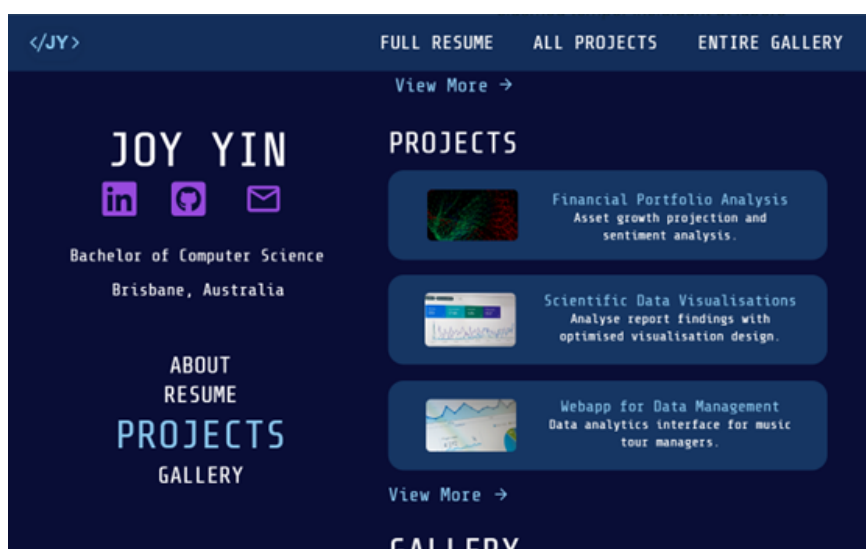
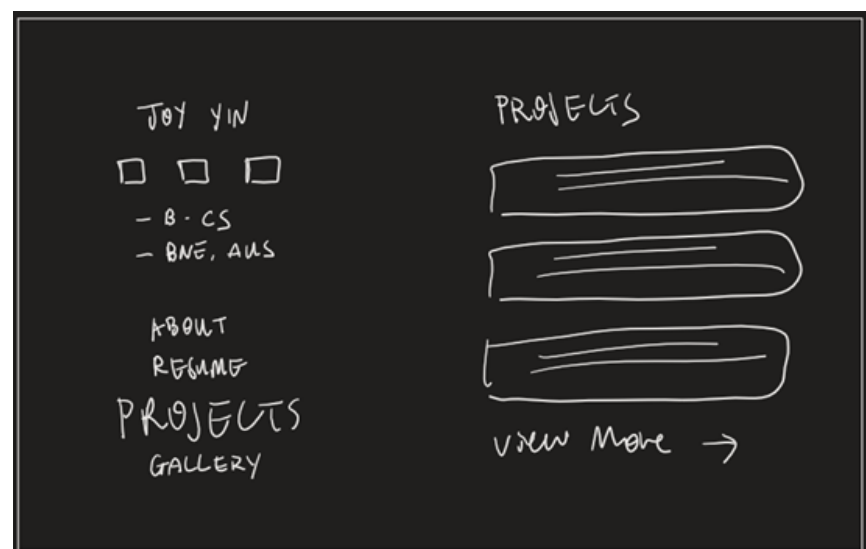
# PORTFOLIO WEBSITE

## OVERVIEW

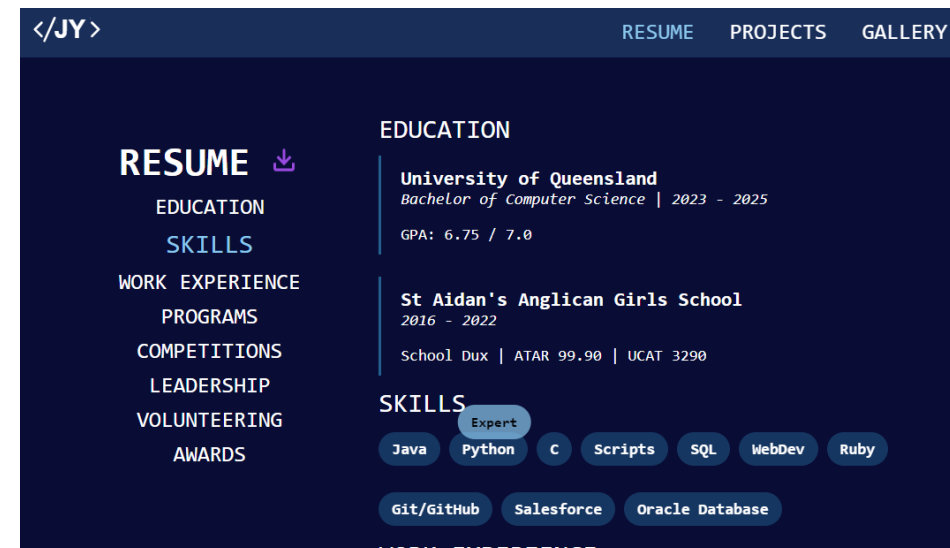
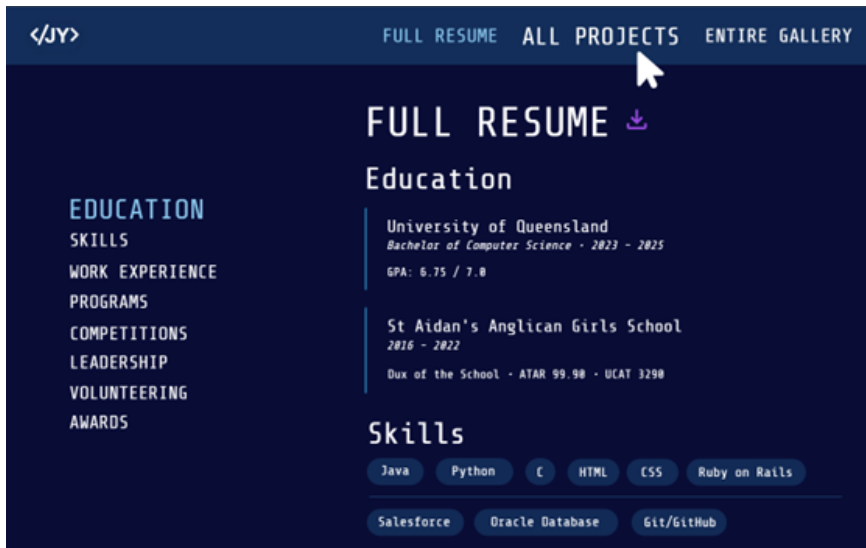
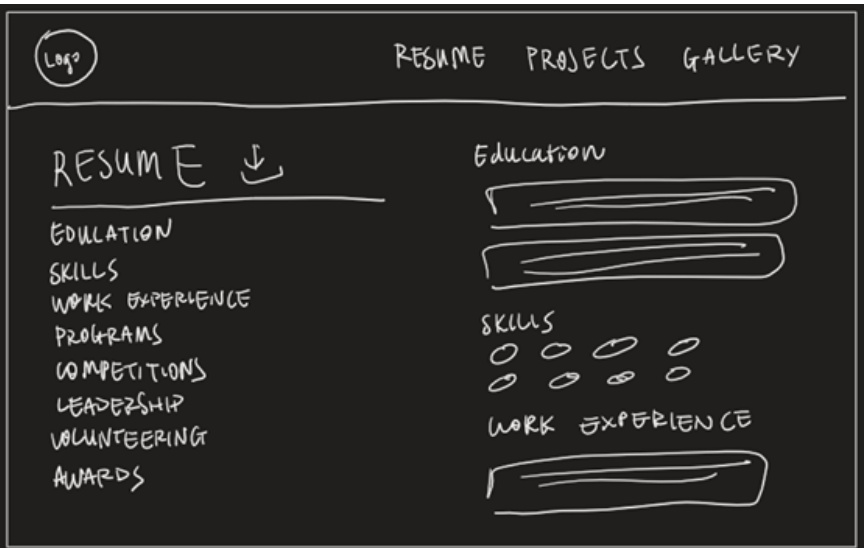
I designed a portfolio website that serves as an online resume with a personal touch that goes beyond just a traditional resume. The intention is to both showcase my front-end capabilities whilst offering technical recruiters a more detailed resource for them to further explore my competencies as a candidate. To offer a quickly accessible snapshot of myself, I present summarised information on the homepage for recruiters who have limited time to spend on each candidate: a brief personal blurb, a high-level snippet of my resume, my top 3 projects and a gallery slideshow. For people with more time, such as software developers interested in my profile, I have more comprehensive webpages including my full resume, a detailed walkthrough of all my projects as well as a full gallery of pictures which provide a personal touch.

## DESIGN AND PROCESS

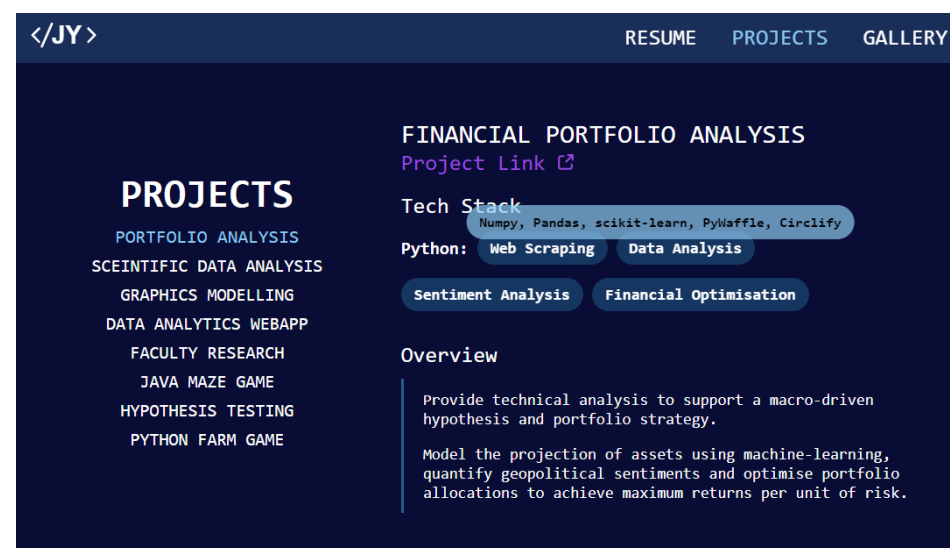
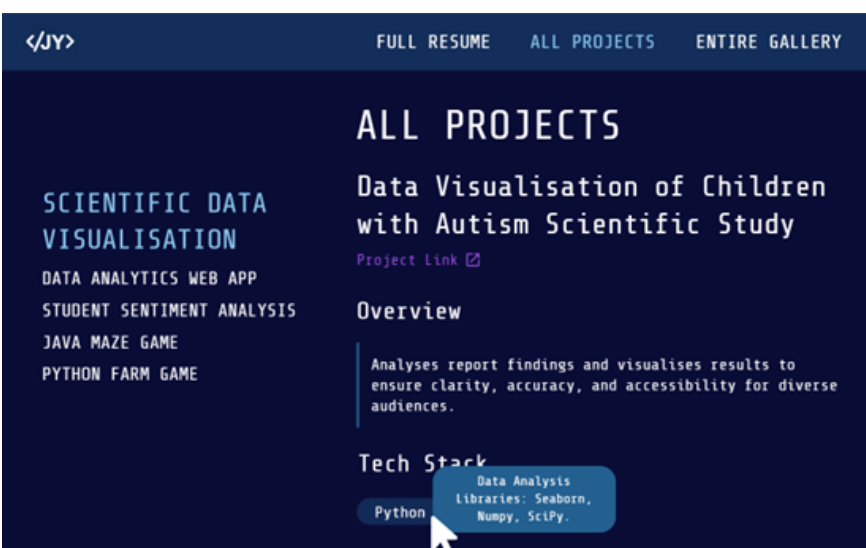
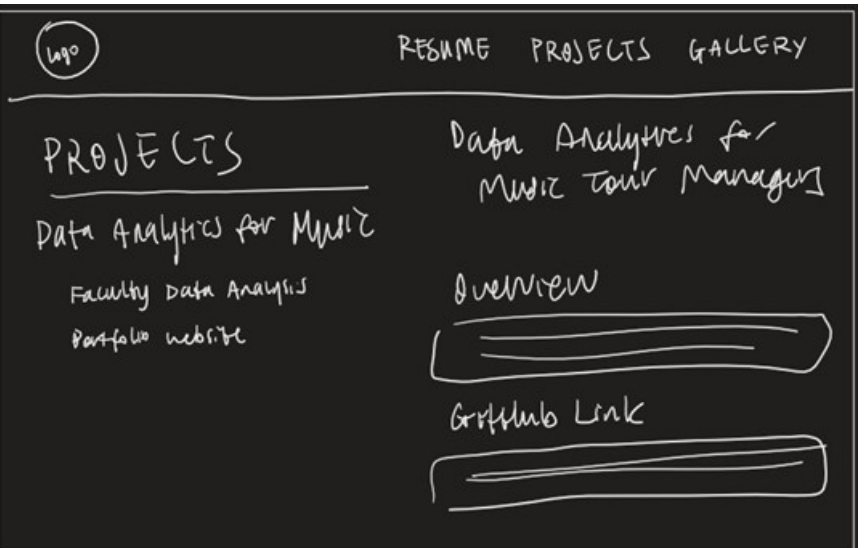
### HOMEPAGE—PROJECTS AND PICTURES SECTIONS



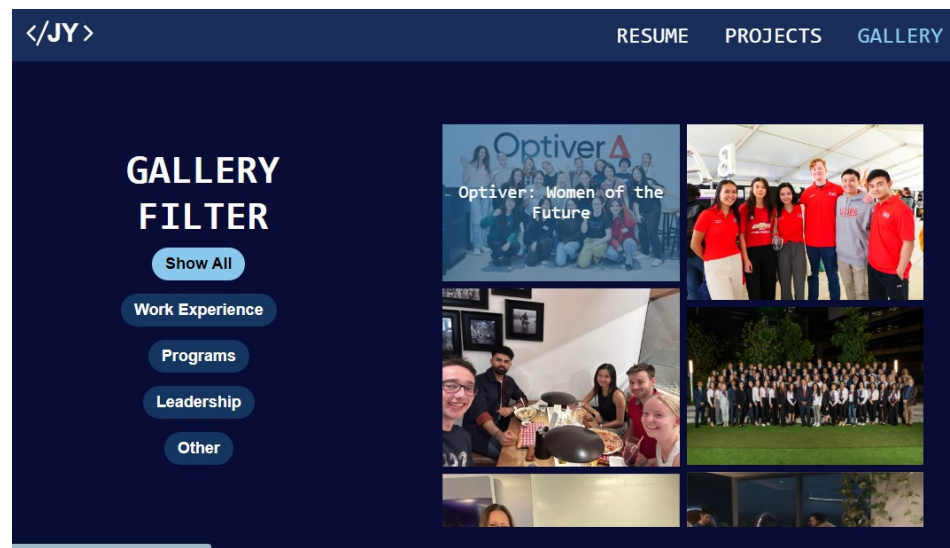
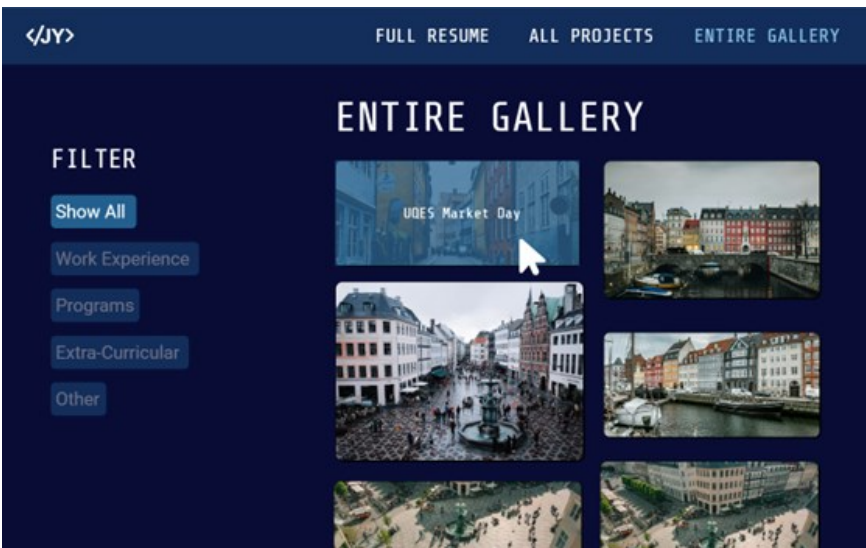
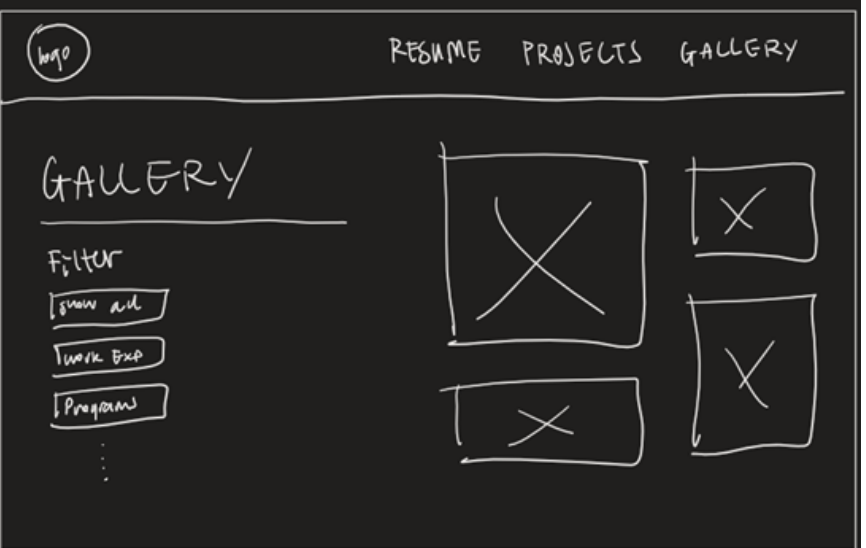
### RESUME FULL PAGE



### PROJECTS FULL PAGE



### GALLERY FULL PAGE



## TARGET AUDIENCE

### RECRUITERS



I prioritise delivering information that is both relevant and quickly accessible. My primary goal is to gauge a candidate's suitability for a role, considering both their technical qualifications and potential behavioural fit within the company. I value unique insights that help me make informed and effective hiring decisions.



### SOFTWARE ENGINEERS

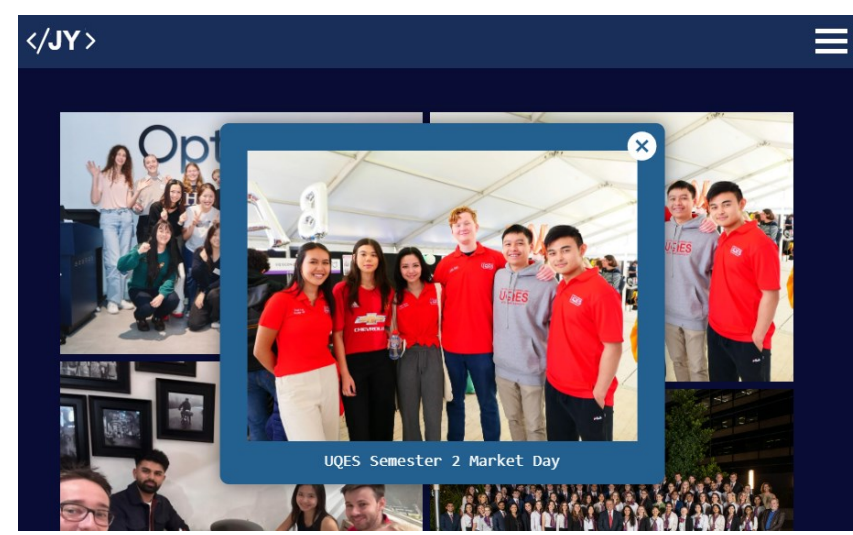
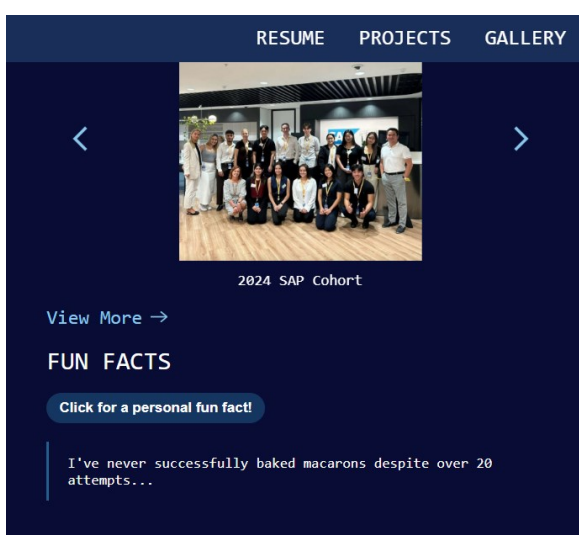


I value simplistic designs, efficient information retrieval, and clarity combined with creativity. My goal is to quickly understand a candidate's technical capabilities, ensuring that I can accurately assess their potential to excel in the role.



## KEY WEBSITE DESIGN CHANGES

- Changed header names:** the prototype headers were too lengthy. As such, the modifier words such as 'OVERVIEW' and 'KEY' were added to the homepage navigation links.
- Moved full page titles to the side header with centered alignment:** this reduced the number of text hierarchies in the right content section and the alignment was then consistent with the homepage's.



## ADDITIONAL IMPLEMENTATIONS

- Added a fun facts section to the homepage:** as the website lacked personality, I added this section to improve the website's uniqueness and impressionability. This also created a more engaging and interactive experience for the user.
- Added picture popup box with description:** this allowed users to view the image in a larger format as well as provide additional description and context for the image.

## MOBILE/TABLET DESIGN

- Centre-orientating content and removing side header:** to fit within narrow constraints, the side header was removed, and the content was shifted into a single column view. This created a more visually balanced interface and a thumb-friendly navigation with content within easy reach.
- Moving side border to an underline:** the side border was removed as there was no longer a need to separate the content from a side header. To follow the center-orientated content, it was replaced with an underline that also serves to separate the content vertically from each other.
- Adding a collapsible hamburger menu:** as the original header would not fit within a narrow mobile/tablet view, it was replaced with a menu icon that would reveal the header links.



## LEARNINGS

I previously had experience in using HTML and CSS so learning how to improve website interactivity and implement additional functionalities using **JavaScript** greatly improved the resulting website. I also learned to appreciate **semantic HTML tags** and rather than using <divs> for everything, using these tags made the HTML code much more readable. Implementation efficiency was also greatly improved by carefully weighing up the advantages and disadvantages between **CSS vs JavaScript animations**. With CSS, I had to grow more conscious of the naming to ensure that I haven't accidentally reused the same name which would create **'styling conflicts'**.

## CHALLENGES

**Ensuring that the design was responsive** to all screen sizes was extremely difficult with having a side-header as the vertical height also had to be considered. As such, all media queries were a combination of width and height constraints. Furthermore, the JavaScript implementation for the **dynamic in-page navigation links** is **slightly glitchy** as there is both a `Timeout` function that ensures that the navigation links don't glitch from switching amongst themselves too fast as well as another `setInterval` function that reinitialises the `IntersectionObserver` to ensure that all page sections are being evaluated at equal time intervals rather than only when the intersection ratio changes. Furthermore, the information **popup bubbles for the tech stack sections required custom positioning** based on the screen-size to ensure they fit but because it relied on the data attribute, I was unsuccessful in trying to style it to wrap into a column when the screen size was smaller. Even then, the bubbles are cutoff when the screen size becomes too narrow. Finally, **rearranging all the elements for the mobile/tablet view** after the side header was removed was very time-consuming as almost every single HTML element needed to be reconfigured and restyled to suit the new viewport size.

## FUTURE WORK

- Add in-page navigation aids to the mobile/tablet view:** as the side header was removed in the mobile view, the in-page navigation functionality could be replaced by a sticky dropdown menu of in-page links. However, this may be confusing for the user as there is also a sticky header bar at the top. Another option may be to have a floating button in the bottom right where a menu pops out upon clicking.
- Adding a backend database:** many pages are quite content-heavy, such as the resume and projects page, which would benefit from dynamic content management—I would be able to easily update, delete and add content without modifying the HTML file itself.
- Smoother navigation animations:** improving the animations of in-page navigation links and header links would enhance the user experience and increase professionalism.
- Increasing interactivity on webpages:** I would modify the content boxes to slightly enlarge upon hover, creating more visual distinction in content-dense pages.