

Robin Uus

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## **How I Used Bootstrap 5**

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## 1 Which Bootstrap 5 components and examples were used, and why?

A responsive and interactive portfolio web site was prepared with some Bootstrap 5 components. To make it easy to use both on mobile and desktop devices, a responsive navigation bar was adopted using the Bootstrap navbar component with a toggler button. The rest of the content was organized on cards all around the site to create distinct sections and perceive a uniform visual structure.

A modal element was added to identify the features of interactive user interface and not to redirect the users to another page: a modal element with the title "Request a Quote" was added. The testimonials were shown with the help of the carousel element; the information was delivered in the form of a dynamic and current slideshow. A responsive contact form was created using bootstrap form controls and the grid system. Progress bars, badges, alerts, and list groups were used to show skill levels and important information more visually with the aim of making the information easier to understand and read.

## 2 Layout structure using the grid system

The page design is built through the Bootstrap containers to make content centred and to ensure that there is a consistent spacing between sections. The control of content display at various screen sizes was achieved when rows and columns like col-12, col-md-4 and col-lg-7 were used. Responsive breakpoints will make sure that the content will be displayed in a stack on smaller screens and in multiple columns on larger displays which will give the most optimal user experience on the device.

## 3 Custom CSS used and its purpose

Custom CSS has been used to improve the default Bootstrap styling without disrupting its responsive system of layout. The hero section has a soft gradient background which has been used to enhance visual appeal. Rounded corners were added to the main section cards and the size of the images was slightly modified to look more polished. The skill cards were given a slight interactivity using a hover lift effect. Also, scroll-margin-top was applied in such a way that anchor links appear in the right place, underneath the sticky navigation bar.

## 4 Challenges faced and how were they solved

Image paths were one of the primary issues, and this was addressed by putting all the pictures in a specific folder and relative paths as they would help to make them work with GitHub Pages. Responsiveness was also functional in various screen sizes and column break points like col-md and col-lg were touched in order to ensure that the layout changes fluidly. Spacing consistency was ensured through the use of Bootstrap spacing utility, like py-5, mb-4 and g-4, as opposed to too much custom CSS.

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## 5 Other learning points

It was through this project, that it became apparent that Bootstrap utility classes have the ability to substitute numerous custom CSS rules and still be able to retain a consistent design. Using the Bootstrap elements, e.g. modals with forms, carousels with the grid system enables the creation of modern user interfaces in an efficient manner. It also got to know that it is important to test the deployed site because file paths and assets can be fine on a local scale, but not when they are published on the internet.