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How I used Bootstrap 5

1. Introduction

This portfolio showcases personal skills, projects, and testimonials using **Bootstrap 5**. The goal was to create a **responsive, mobile-first, and visually appealing website** that demonstrates web development proficiency.

2. Bootstrap 5 Components Used

- **Navbar:** Responsive navigation with collapsible menu.
- **Grid System:** container, row, col, row-cols- for responsive layout.
- **Cards:** Skill cards with images, descriptions, progress bars, and buttons.
- **Carousel:** Sliding testimonials with indicators and navigation controls.
- **Buttons & Progress Bars:** Call-to-action buttons and visual skill representation.
- **Utilities:** Spacing, alignment, typography, and shadow classes for consistent styling.

Purpose: Components were chosen to build a professional, responsive portfolio efficiently.

3. Layout Structure

- **Containers & Rows:** Used to constrain content and align sections.
- **Responsive Columns:**
 - Mobile: 1 column
 - Small screens: 2 columns
 - Medium+: 3 columns
- **Flex Utilities:** d-flex, flex-column, mt-auto for consistent button placement in cards.

4. Custom CSS

- Navbar link sizing, carousel indicator colors, and carousel control styling.
- Purpose: Improve visibility, match theme colors (lightskyblue), and enhance user experience.

5. Challenges and Solution

Cards not displaying horizontally	Ensured each card is a direct child of .col inside .row
Carousel text overlapping images	Used d-none d-md-block for desktop and d-md-none for mobile to separate layouts
Carousel controls hidden	Positioned outside .carousel-inner and adjusted z-index and color
Text justification in Bootstrap 5	Applied style="text-align: justify" for paragraphs

6. Key Learnings

- Proper **carousel structure** is crucial (single .carousel-inner).
- Mobile-first, responsive design using **grid and utility classes**.
- Combining Bootstrap with **custom CSS** improves theme consistency.
- Accessibility features such as aria-label and visually-hidden enhance usability.

7. Conclusion

The portfolio effectively demonstrates **Bootstrap 5 skills, responsive layout techniques, and clean design practices**. With minor carousel structure adjustments, it is fully functional, visually appealing, and professional.