

CodeSpace Academy Curriculum Outline

Profile of Amanda Maarman



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The primary desired outcome of the CodeSpace academy is to generate learners that are able to self-motivate, self-teach and are have the confidence to navigate the ever changing landscape of web technologies. Thus a great emphasis is placed on students exploring curriculum themselves and going through learning practices without top-down enforcement. The below concepts are all introduced, discussed and then students are given a time period in which to do research and to trial different methodologies for themselves. Furthermore, students undergo design thinking classes and professional development to empower them to creatively solve problems and thrive within a working environment.

Coding

Introduction to Web Technologies

Introduction to web technologies (HTML,CSS,JS and PHP).

How web languages are used, the difference between frontend and backend development and how different technologies relate to each other.

HTML & CSS Fundamentals

Diving deeper into HTML, structuring documents, typography, lists, images, links and div layouts.

How to navigate w3schools to find references for differing elements.

Intro to CSS, inline styling concepts and then extracting to stylesheets.

Correct targeting methods for selectors.

Frameworks (bootstrap)

Using bootstrap to learn about the benefits of using a framework and to introduce the concept of responsive websites.

Learning how to navigate documentation and how to implement examples of code.

Client meeting and Wireframes

Meeting a client and extracting requirements for their website.

User journeys are mapped out and wireframes designed in balsamiq.

Collaboration and GIT

Git is introduced with practical examples. Projects commence and are managed using GIT teaching team members to work together seamlessly.

Databases

Introduced to the concept of database. Students learn the concepts of normalization, schema design and naming conventions. Students are then introduced to SQL and learn how to run basic CRUD commands.

Admin interfaces for inserting data into their projects. Students then move on to populating the frontends of their projects with the data as inserted into the database. Data is validated and errors are returned if incorrect.

Javascript and jQuery

Learn about how javascript acts as a frontend language. jQuery is introduced and manipulation of the DOM is taught. jQuery plugins are implemented.

Continuation of HTML & CSS

Custom HTML layouts using floating and percentages are taught. SASS preprocessor is introduced along with how to implement intro projects.

Design Thinking

The students went through a series of user-centered design challenges. Design Thinking was introduced as a tool for social innovation in a MOOC, "Becoming a Changemaker". The learning outcomes were as follows:

- creative, critical and connected thinking
- problem solving framework
- solutions-based thinking

- idea generation and evaluation
- analysis and synthesis
- divergent and convergent thinking
- communicating ideas: pitching
- empathy development
- teamwork and collaborative thinking

Professional Development

The students attended professional development workshops and one-on-one counselling sessions to help drive their personal growth. These workshops included:

- Goal setting and reflections
- Empathy development
- Creating a mindset of possibility
- Professional communications
- CV writing

Client Project (portfolio)

Amanda worked with a client who wished to create a website for her professional development courses.

Below are screenshots of the project.





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“Music gives wings to the soul and teaches it to fly”

Music connects and touches us in ways we can't describe.

Music Therapy is about connecting, expressing, communicating, dealing with difficult emotions, being heard and validated, listening, exploring creatively, being playful and relationship building in a safe space through the very accessible medium of music.

On this site you'll find my music, something about the music therapy projects I am involved in as well as some of my writing and perhaps even an event or two.

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Carol Williams

The second project worked on is called "Project Ludwe". Ludwe is an entrepreneur that does motivational speaking in Khayelitsha and he needed a website to spread the word about his talks. The site was built using the bootstrap framework.



First featurette heading. It'll
blow your mind.

Donec ullamcorper nulla non metus auctor fringilla. Vestibulum id