Computing Club Meeting 9/19/2019

Intro to Fundamental Web Development

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**Slide 1 – Title Slide**

* There is A LOT of things to learn in web development. You won’t be an expert after today’s meeting, but I wanted to expose you the fundamentals to this tech, because you probably will run into this sometime during your career

**Slide 2 – Follow Along**

* Two tools needed:
  + Web Browser
  + Text Editor – List on slide
    - I like visual studio code because its lightweight, cross-platform, and has intellisense
* Stop me if I’m going too fast

**Slide 3 – Why Learn these things?**

* A lot of applications in the industry are web apps.
* Basic HTML/CSS knowledge is essentially an expectation in the industry.
* You can develop cross platform mobile apps with HTML/CSS/JS (Ionic framework).
* JavaScript frameworks EVERYWHERE
  + Front-end, Back-end, Mobile, Desktop, etc.

**Slide 4 – What is HTML, CSS, JavaScript?**

* Analogy of a house.
* HTML5 is the **structure** of the webpage.
  + The blueprint of the house.
* CSS3 is the **design** of the webpage.
  + The embellishments of the house.
* JavaScript is the **engine** that creates the interactive aspect of the webpage.
  + Appliances and utilities of the house.

**Slide 5 – Starting off with HTML**

* HTML is a markup language. It is a document that represents the structure of a document
* Web pages are made up of elements.
  + Elements are represented by tags.
* HTML Element
  + Tags – HTML has many, many tags
  + Attributes

**Slide 6/7 – Hands on experience**

* Post the
* Demonstrate some tags in HTML
* <!DOCTYPE html> - Tells the browser that this is HTML
* <html> - Wraps the whole HTML Document
* <head> - Contains data about the HTML document
* <body> - The content that the users see
* Basic Text - <h1> <p> <hr/ > <b> <i> <u>
* Lists <ul> <ol> <li>
* Blocks
* HTML Attribute help define the object
* <a>
* <img>

**Slide 8 – Styling: CSS, Selectors, blocks**

* CSS makes things pretty. There is SO much you can do with CSS. I’ll only be able to scratch the surface of what you can do. I’m just teaching you how to apply it today. Google things. W3Schools is an excellent resource
* 3 Ways of Applying
  + Inline (Do on this slide)
  + Internal
  + External

**Slide 9 – Applying CSS with Selector**

* Need a selector for internal & external CSS
* SO many properties.
* Selectors can be:
  + Elements
  + Classes (.)
  + Ids (#)
* Color, background-color, padding, margin, border

**Slide 10 – JavaScript**

* This is the engine/organs of your webpage
* Interpreted programming language
* You can do so much with JavaScript
* Lets make something simple

Ask what else we want to do with the webpage