AWOL - Programming

Introduction

Who am I?

- I'm Adam Bourg. Married to Christin Bourg (Sped. Teacher)
- I'm a professional software engineer, currently self employed
- My clients include one of the big 4 accounting firms
- I've worked with the USDA, SlingTV, Dish Network, and UnitedHealth group among many others
- I got started in programming when I was 12

Why should I learn to program?

- It's really fun
- It's a good hobby
- You can build really cool stuff
- It's a great career
  - As a career you can make a lot of money ($50-100 an hour)
  - You can work wherever you want
  - You don't have to be a math wiz (I'm not)

What do I need?

- School provided email account
- School provided chromebook
- A desire to learn cool stuff

Technical Objectives

- Students will become familiar with cloud development tools such as AWS Cloud9
- Students will become comfortable with code management tools like Git and GitHub
- Students will become proficient in basic computer programming
- Specific Languages:
  - HTML
  - JavaScript (JSX)
  - CSS
- End Objective is to build a React Native application for the Feel The Beat non profit
- Learning the process from a project start to finish

Objectives

1st Semester:

Gain an basic understanding of coding. Be able to build a simple web app or React native application

2nd Semester:

Collab with other students in building a real world project

Real world project?

Yup. The project is for our client, who have hired all of us to build a mobile application and website. The client is a local non profit, Feel The Beat.

High Level objectives of the project:

- Mobile application to find, book and schedule classes where participants can feel the bat
- Web portal to allow FTB people to add events

Feel the beat

Watch: https://www.youtube.com/watch?v=O0ZZrbP1aZA

Promoting music & dance access for ALL!

Our vision is to ensure *no one* feels left out in the experience of music & dance.

Feel the Beat is a 501c3 nonprofit organization dedicated to making the experience of music possible for those who are Deaf, Hard of Hearing, and with Special Needs. We use bone-conduction dance floors that allow students to feel sound through vibrational energy.

September

Sept 8
- Introduction to the course
- Introduction to Feel the beat and get to meet our client
- Project overview
- Live demo of building a simple web site
- Lab to setup workstation, cloud IDE and build a Hello world App

Sept 15
- Introduction to variables, assignment, loops and basic logic from a javascript perspective
- Lab idea: Build a RN app that can take user input, display something initallity from "Hello World!" to "Hello, ${name}!! How are you?" -- Bonus points for animations and coloring

Sept 22
- Intro to CSS, basic styles, animations and common style properties
- Lab to create some fancy designs

Sept 29
- Intro to HTML, basic tags, elements
- Lab to create a basic website

Let's get started

Using your school email, sign up for an free account at

https://codepen.com/

Then navigate to:

https://codepen.io/adambourg/pen/PojNaeP