



#### Look at all you have learned!

#### The Browser **Dev Tools Server Side** HTMI Heroku Templating Engines • CSS • Git Sessions JavaScript GitHub Writing tests Node.js ¡Query Bootstrap Express.js Creating APIs MVC **API Interaction Databases** User Authentication APIs MySQL • ORM (Sequelize) JSON MongoDB A,JAX Real Time Cloud Database via Firebase **Cutting Edge Development CS Fundamentals** React.js Algorithms

• Data Structures

#### Your Goals Re-examined

And why do you want a new career?



To pursue a dream



To escape a dead-end job



To be able to create



To follow a fascination



To attain financial stability



To obtain financial freedom

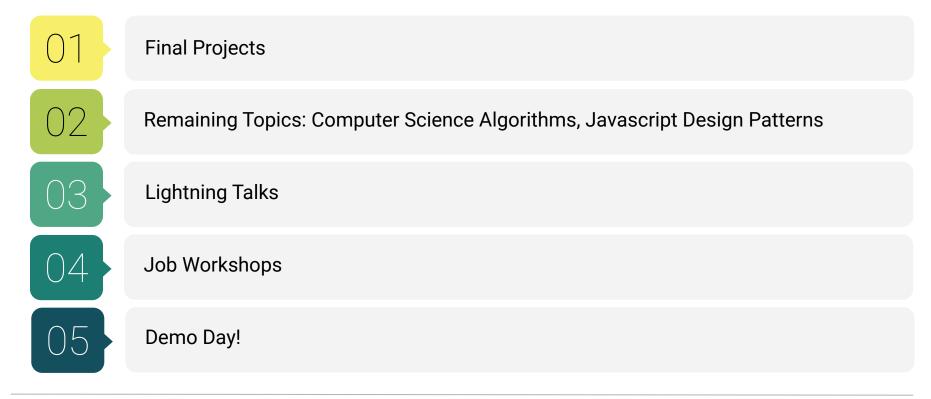


To challenge yourself



To be a **role model** to kids

#### What's Left



#### **Never Stop Learning!**

01

The key to hireability and relevance is to constantly be learning.

02

The field is always changing and there is never a point where you can call it quits.

03

Stick with it! It's a craft that you continue to hone with time.





**Your Challenge** 

#### Your Challenge



You have plenty of time to work on this.

You have ALL the skills you need.

You have a team of skilled developers.



You have experts willing to help.



No excuses. Time to prove yourself.



## **Expectations**

#### **Expectations**

- We expect whatever you build to have utility.
- 2. We expect you to have market or real-world research that evidences your idea has REAL value to people.
- 3. We expect you to have done research on other web/mobile applications in your domain.
- 4. We expect you to put serious time and thought into this.
- 5. We expect you to report problems you are facing along the way.
- 6. We expect you to utilize some form of project management system.
- 7. We expect you to dig deep into documentation and external resources to learn what you need.

## Requirements

#### **Coding Requirements**

- Must use ReactJS in some way (even if minimal)
- Must use a Node and Express Web Server
- Must be backed by a MySQL or MongoDB Database with a Sequelize or Mongoose ORM
- Must have both GET and POST routes for retrieving and adding new data
- Must be deployed using Heroku (with Data)
- Must utilize at least two libraries, packages, or technologies that we haven't discussed
- Must allow for or involve the authentication of users in some way
- Must have a polished frontend/UI
- Must have folder structure that meets MVC Paradigm
- Must meet good quality coding standards (indentation, scoping, naming)
- Must not expose sensitive API key information on the server



#### **Deliverables**

Instead of homework, you will be required to submit four Project Deliverables.

01 > 1

Plan, Design, and Research

02

Ready MVP (Working App!), Mini-Presentation

(03)

Project Polish, Functionality Push, Final Plan



**Presentation Time!** 

# **Deliverables 1:**Plan, Design, and Research

#### Deliverables 1: Plan, Design, and Research

#### In this plan, you will include:



An overview of the intended application and WHY you feel it's valuable.

02

A set of DETAILED screen-by-screen design layouts with annotations describing all UI/UX components and all data relevant to the screen.

03

A breakdown of roles by group member.

 $\left(04\right)$ 

A schedule for completion of various tasks.

 $\left[05\right]$ 

A screenshot of your Project Management Board that shows breakdown of tasks, assigned to group members with a schedule.

#### **Example UI/UX Flow**

#### Screen Map

This is intended to show you the order in which users would see screens. The three branches correlate with the three button options from the main menu.



### **Example Data Flow**

#### User View—Clinical Trial App

