Activity for Junior Web Developer

Thank you for your interest in our junior web software developer position at ESD 112. In order to evaluate your technical ability, we have a software project for you to complete. This should take 2-3 hours a day/night for a couple of days to complete. This evaluation will serve as part of the first round of the interview.

Please complete one of the following:

1. Holiday Calendar: Create a web application that consumes holidays from this API (documentation) endpoint and displays a single month at a time a calendar populated with those holidays. Then the user can navigate backwards or forwards to flip through the months.

2. School Directory: Create a web application that takes in an uploaded file from this site (Export to Excel produces a CSV) and populates a school directory application. The web application needs to perform basic CRUD operations on the data. Using a storage mechanism other than a database is acceptable.

3. Photo Gallery: Create a web application that consumes this public Flickr images API endpoint and displays a page of images depending on whether images should be loaded based on tags or author. The description, author, and tags are displayed below each image, and the author and tags are clickable. When clicked they display a gallery containing photos of just what was clicked. For example, if one of the images in the gallery has a tag to *balloons*, *balloons* displays as a link and then clicking on that link will load a page of all images with the tag of balloons.

Guidelines:

1. These projects should be considered prototypes. You can put as much effort as you want into them, but they just need to demonstrate for us that you know how to use the various languages and frameworks out there to make something. Making stuff is imperative in programming.
2. As this is a junior web developer position, use the languages/frameworks you know to build these web projects. Just know that you will be building in the following tech: ASP.NET Core, jQuery, VUE, Azure services, SQL Server, Entity Framework Core, etc.
3. You will be evaluated on meeting project specifications, smoke test, the quality of your code (readability, documentation/inline comments, etc.), and your approach to creating the project. Come ready to defend your approach.
4. Commit your source code to a public GitHub, Bitbucket, Gitlab, or Azure DevOps git repository and send links to these two addresses: makoa.jacobsen@esd112.org and mayra.najera@esd112.org. At your interview, come ready to “share your screen” with your project and demonstrate to us what you made.

If you have any questions on any of this, contact Makoa Jacobsen via email at makoa.jacobsen@esd112.org.