**TourConnect Engineering**

Written Interview

Thank you for your interest in joining the team at TourConnect. Please take a few minutes to answer a few questions to help us learn a little more about you. When you are done, please name the file “TourConnect Questionnaire - <Last Name> <First Name>” and email it to [joinourvision@tourconnect.com](mailto:joinourvision@tourconnect.com).

We look forward to hearing from you soon!

1. **What about the job description interested you?**

Tourism industry has always inspired me. Needless says everybody loves to travel and working in this industry will always be motivating and fun. I have always wanted to work in a startup environment and tourconnect is still in a startup phase i will get the opportunity to grow with the company. Also, the knowledge and experience i have is aligned with the job description and I can assure you, given an opportunity I can excel within the company.

1. **Tell us about your favorite work/project experience - something that was exciting, energizing, and personally satisfying.**

My favorite project was my capstone project where i created a sudoku game which is a multiplayer game. Making an anti social game social where you can see the progress of the opponent. I learned a lot while creating this game. The technologies used were, HTML, CSS, Javascript, MongoDB, React, Redux, Node.

1. **Please give an example of something you changed/improved for the better.**

During the last project, the code i started with was a react code. Due to

the code getting really complex and hard to maintain its states I took the whole code and converted it into redux code. Which improved the page performance by 30%.

1. **Please rank your JavaScript proficiency (select only one rank below)…then do the same for React/Redux.**

*1 – (Cursory Knowledge – I’ve never used JavaScript, but I’m ready to learn!)*

*2 – (Just Starting – I’ve used some snippets on several websites!)*

*3 – (Proficient – I regularly use JQuery and wrote some plugins!)*

*4 – (Advanced – I have worked on non-trivial JavaScript heavy apps!)*

*5 – (Expert – All of the above, and I can teach it to others!)*

**Javascript -> *Advanced***

**React/Redux -> *Advanced***

1. **Please confirm your United States work authorization status and the earliest date you would be available to start work with TourConnect.**

**EAD -> an employment authorization document**

**I can start within 2 weeks.**

1. **(OPTIONAL) If you’d like to share some of the work you have done, we’ll be happy to take a look. Feel free to provide any relevant links to sites/systems you’ve worked on, your Github repo, LinkedIn details, etc.**

**Projects**

<https://nishthaarora.herokuapp.com/project.html>

**Github Account**

<https://github.com/nishthaarora>

**CODING CHALLENGE**

Please complete the following coding challenge. When complete, please send your answer and any relevant files (test, etc.) to [joinourvision@tourconnect.com](mailto:joinourvision@tourconnect.com). Please also let us know how much time it took to complete the problem (including thinking through it, not just the implementation).

We look forward to hearing from you soon!

1. Write a function that takes in an object and returns a new object according to the following rule:

* If the key is 'x', double the value, if the key is 'y', triple the value, otherwise return the value as is.
* So if given { x: 1, y: 2, z: 3 }, the result should be { x: 2, y: 6, z: 3 }.

Please solve this question using vanilla JavaScript.

*BONUS: In addition to the vanilla JavaScript answer, solve this question incorporating Ramda (tip: explore mapObjectIndexed and cond).*

1. Using the function you created for the question above, create another function that takes an array of objects and returns a new array of objects according to the same rule as above.

* So if given [ { x: 1, y: 2 }, { y: 4, b: 21 } ], the result should be [ { x: 2, y: 6 }, { y: 12, b: 21 } ].

Please solve this question using vanilla JavaScript.

*BONUS: In addition to the vanilla JavaScript answer, solve this question incorporating Ramda.*

We look forward to seeing your solution!