Candidate - Dmitry Usik (junior)

Legend: JavaScript · TypeScript · React · React Native · Data structures and algorithms · Native Platforms · Communication Skills · Test Tasks · Other

Chart values: JavaScript 15, TypeScript 10, React 20, React Native 20, Data structures and algorithms 10, Native Platforms 10, Communication Skills 10, Test Tasks 5, Other 10 — total **90 min**

Questions:

JavaScript (15 min):
1) What is hoisting?   **Mark: ___ / 5**
2) What is scope?   **Mark: ___ / 5**
3) What do &&, || and !! operators do?   **Mark: ___ / 5**
4) What would be the result of $2 + 5 + $ '3'?   **Mark: ___ / 5**
5) What is the value of this in JavaScript?   **Mark: ___ / 5**
6) What is the difference between implicit and explicit coercion?   **Mark: ___ / 5**
7) What is NaN and how to check if a value is NaN?   **Mark: ___ / 5**

TypeScript (10 min):
1) What are the object-oriented terms supported by TypeScript?   **Mark: ___ / 5**
2) What are the access modifiers supported by TypeScript?   **Mark: ___ / 5**
3) Does TypeScript support function overloading?   **Mark: ___ / 5**

4) Which keyword is used for inheritance in TypeScript?   **Mark: __ / 5**

React (20 min):
1) What is children prop?   **Mark: __ / 5**
2) How to loop inside JSX?   **Mark: __ / 5**
3) How to use connect from react-redux?   **Mark: __ / 5**
4) What are middlewares in Redux?   **Mark: __ / 5**
5) Describe how to work with redux-thunk.   **Mark: __ / 5**
6) What is the difference between Redux and Mobx?   **Mark: __ / 5**
7) What are reactions?   **Mark: __ / 5**
8) What tools for Mobx debugging do you know?   **Mark: __ / 5**
9) What is useState hook?   **Mark: __ / 5**
10) What is useMemo hook?   **Mark: __ / 5**

React Native (20 min):
1) What ways to work with platform-specific code do you know in React Native?   **Mark: __ / 5**
2) Have you ever had trouble while updating React Native to the next version?   **Mark: __ / 5**
3) How to boost the performance for images?   **Mark: __ / 5**
4) Have you ever developed native modules? Describe your experience.   **Mark: __ / 5**
5) What libraries for navigation did you use? Describe your expience.   **Mark: __ / 5**
6) How many threads does the React Native application work in?   **Mark: __ / 5**
7) Describe the flow of the React Native bridge.   **Mark: __ / 5**

Data structures and algorithms (10 min):
1) What is Set?   **Mark: __ / 5**
2) What is Stack?   **Mark: __ / 5**
3) What is Queue?   **Mark: __ / 5**

Native Platforms (10 min):
1) How to create a Splash Screen on iOS?   **Mark: __ / 5**
2) What is AppDelegate.m?   **Mark: __ / 5**
3) How to add the app icon on iOS?   **Mark: __ / 5**

Communication Skills (10 min):
1) Describe the project management systems you worked with.   **Mark: __ / 5**
2) What is Scrum?   **Mark: __ / 5**
3) How many OS did you work with?   **Mark: __ / 5**
4) What code editor or IDE do you prefer?   **Mark: __ / 5**
5) What cloud code repositories did you work with?   **Mark: __ / 5**

Test Tasks (5 min):
1) Create a function that takes two arguments: the final price and the discount percentage as integers and returns the final price after the discount.   **Mark: / 5**

Other (10 min):
1) Describe the OOP approach?   **Mark: / 5**
2) Describe the Factory Method design pattern.   **Mark: / 5**
3) What but-tracking systems have you worked with?   **Mark: / 5**