- what are closure, callback function, and higher-order function in js?

Higher-order functions are just a function returning a function, or that takes a function as an argument.

Closures **preserve the outer scope inside an inner scope**. an example often used is a counter.

A callback is a function passed into another function as an argument to be executed later.

- what is higher-order components in react.js?

What are HOCs in React? Higher Order Components or HOC are basically functions that take a component as an argument and return a new component. Higher Order Components are useful to abstract a shared logic used by many components. Components in React allow code reuse and prevent code repetition.