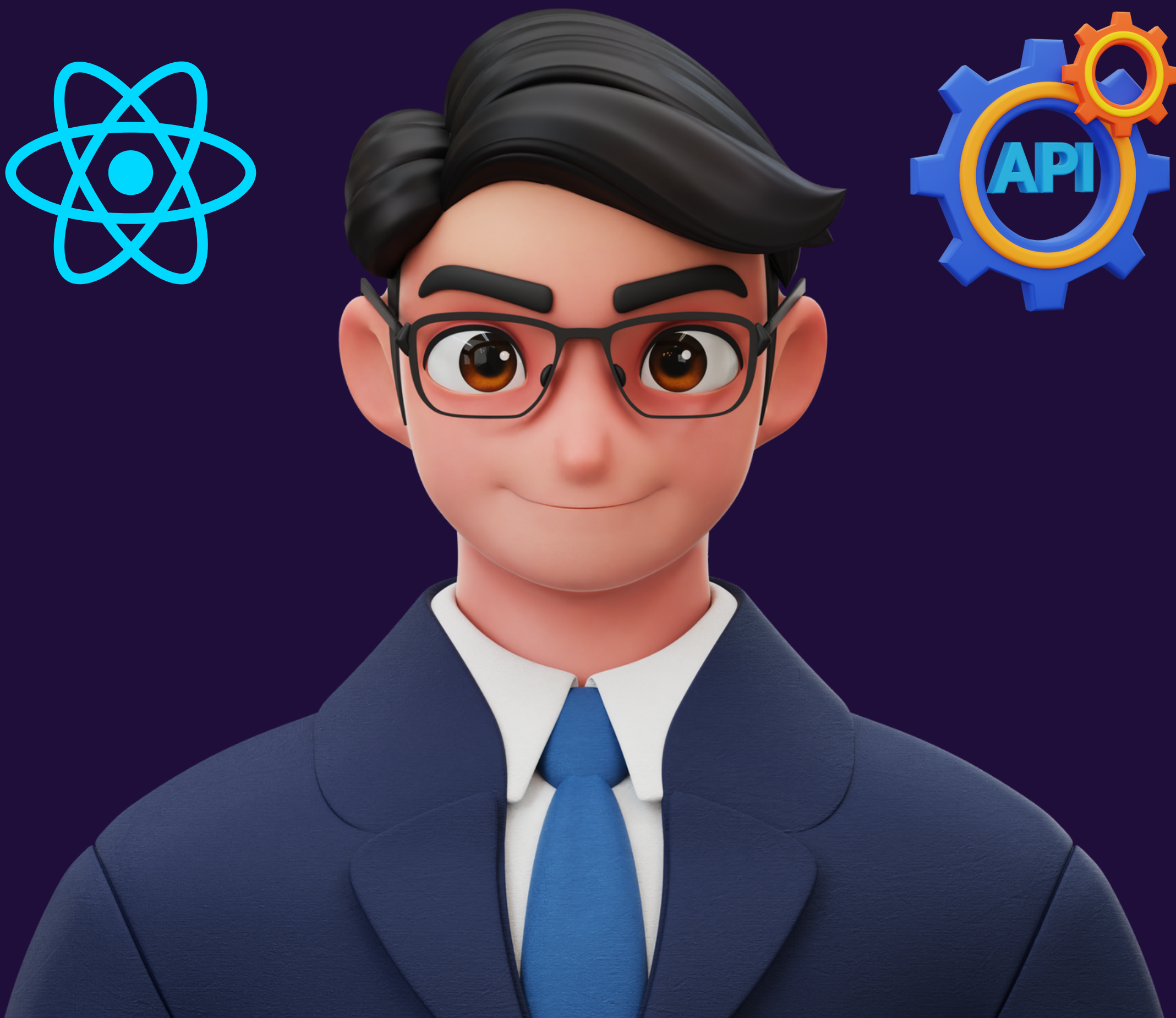
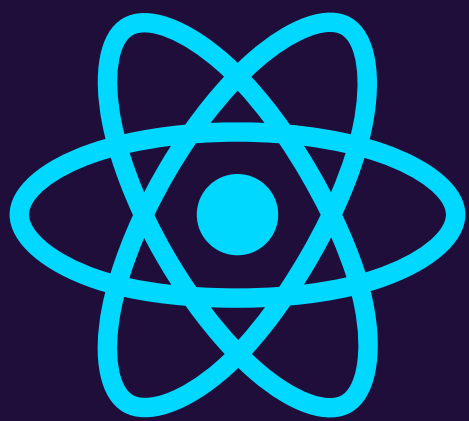


Mastering Data Fetching in React



1. Fetch API

JavaScript's built-in method for making network requests

```
async function fetchData() {  
  const response = await fetch('https://api.example.com/data');  
  const data = await response.json();  
  return data;  
}
```

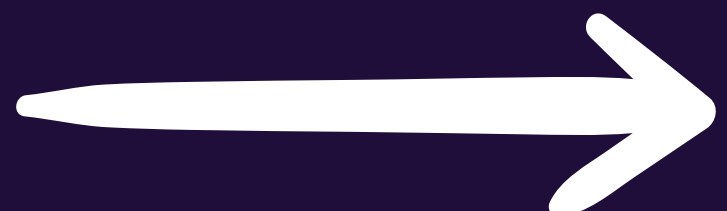


2. Axios

Popular, promise-based HTTP client library.

```
import axios from 'axios';

async function fetchData() {
  const response = await axios.get('https://api.example.com/data');
  const data = response.data;
  return data;
}
```



3. React Query

Powerful library for fetching, caching, and managing server state in React.

```
import { useQuery } from 'react-query';

function MyComponent() {
  const { data, isLoading, error } = useQuery('data', fetchData);

  if (isLoading) return <p>Loading...</p>;
  if (error) return <p>Error: {error.message}</p>;

  return (
    <ul>
      {data.map((item) => (
        <li key={item.id}>{item.name}</li>
      ))}
    </ul>
  );
}
```



4. Custom Hooks

Encapsulate data fetching logic and make it reusable across components.

```
function useFetchData() {  
  const [data, setData] = useState(null);  
  const [isLoading, setIsLoading] = useState(false);  
  const [error, setError] = useState(null);  
  
  useEffect(() => {  
    const fetchData = async () => {  
      setIsLoading(true);  
      try {  
        const response = await fetch('https://api.example.com/data');  
        const fetchedData = await response.json();  
        setData(fetchedData);  
      } catch (error) {  
        setError(error);  
      } finally {  
        setIsLoading(false);  
      }  
    };  
  
    fetchData();  
  }, []);  
  
  return { data, isLoading, error };  
}
```





Follow for more