

# React Fundamentals

Duration: 2 days

## 1. Intro to Advanced JavaScript

- Welcome
- What you need to know?
- Array.map
- Array.filter
- Array.reduce
- Pure Functions
- this
- .call
- .apply
- .bind

## 2. Rendering UI with React

- Introduction
- Imperative vs Declarative
- Composition
- Unidirectional Dataflow
- JSX
- Virtual DOM
- ES6 Classes

## 3. State Management

- Introduction to State
- Props
- Children
- Prop-types package
- createElement
- Functional setState

- Lifecycle Hooks
- Container vs Presentational Components
- Stateless Functional Components
- Synthetic Events
- Private Stateless Functional Components

#### 4. Manage App Location with React Router

- Intro to React Router
- Declarative Routing
- Route Matching
- Query Params

#### 5. Conclusion

- QA
- Useful Security Resources
- Feedback