

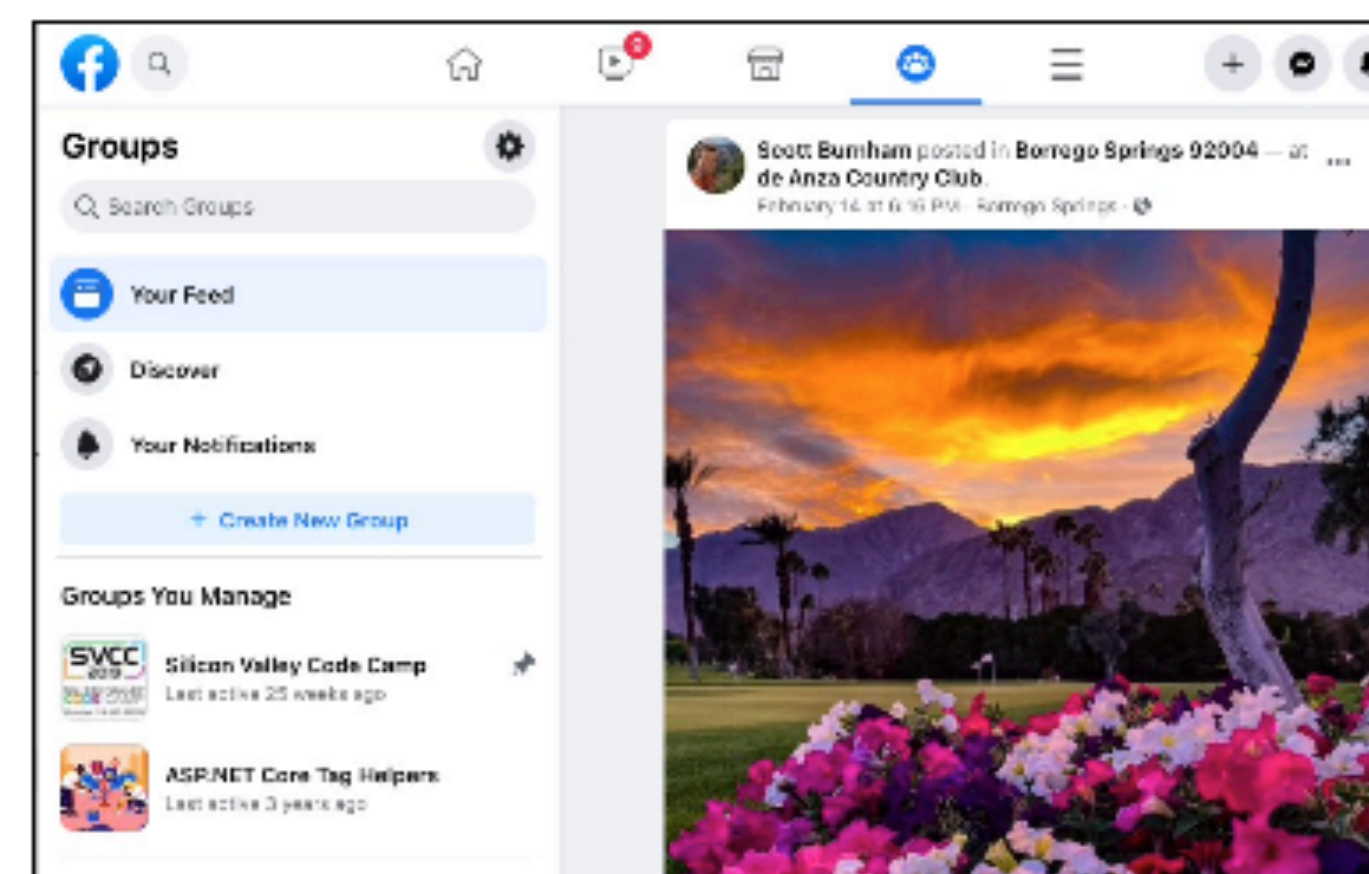
# React Components

Reddy Tintaya - Software Engineer

# Good Component Design

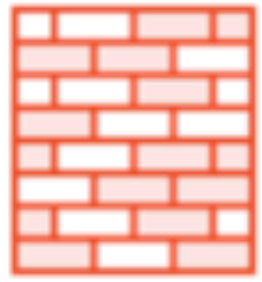


**Basic “To Do” app**



**Full Facebook app**

# What is a React Component?



**Building blocks that when combined together create a UI**



**Independent, reusable parts of an app**



**Allow for easy building combined with a great browser experience**

# React Components types

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Class Component

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## Class Component

```
class Welcome extends React.Component {  
  render() {  
    return (  
      <h1>Hello, {this.props.name}  
      </h1>  
    );  
  }  
}
```

# React Components types

Class Component

```
class Welcome extends React.Component {  
  render() {  
    return (  
      <h1>Hello, {this.props.name}</h1>  
    );  
  }  
}
```

Functional Component

```
function Welcome(props) {  
  return (  
    <h1>Hello, {props.name}</h1>  
  );  
}
```

# Goals



# Goals



**Ability to build apps  
more easily**

# Goals



**Ability to build apps  
more easily**



**Build apps that are  
more scalable**

# Goals



**Ability to build apps  
more easily**



**Build apps that are  
more scalable**



**Apps created are  
easier to maintain**

# Refactor to Multiple Components

## Single component

```
function IndexPage() {  
  return (  
    SpeakersList() {  
      Speakers() {  
        Speaker() {  
          Sessions() {  
          }  
        }  
      }  
    }  
  )  
}
```

## Multiple components

```
function IndexPage() {  
  return (function SpeakersList() {}))  
  
function SpeakersList() {  
  return (function Speaker() { })  
}  
  
function Speaker() {  
  return (function Sessions() { })  
}  
  
function Sessions() {  
  return (function Session() { })  
}
```