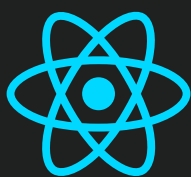


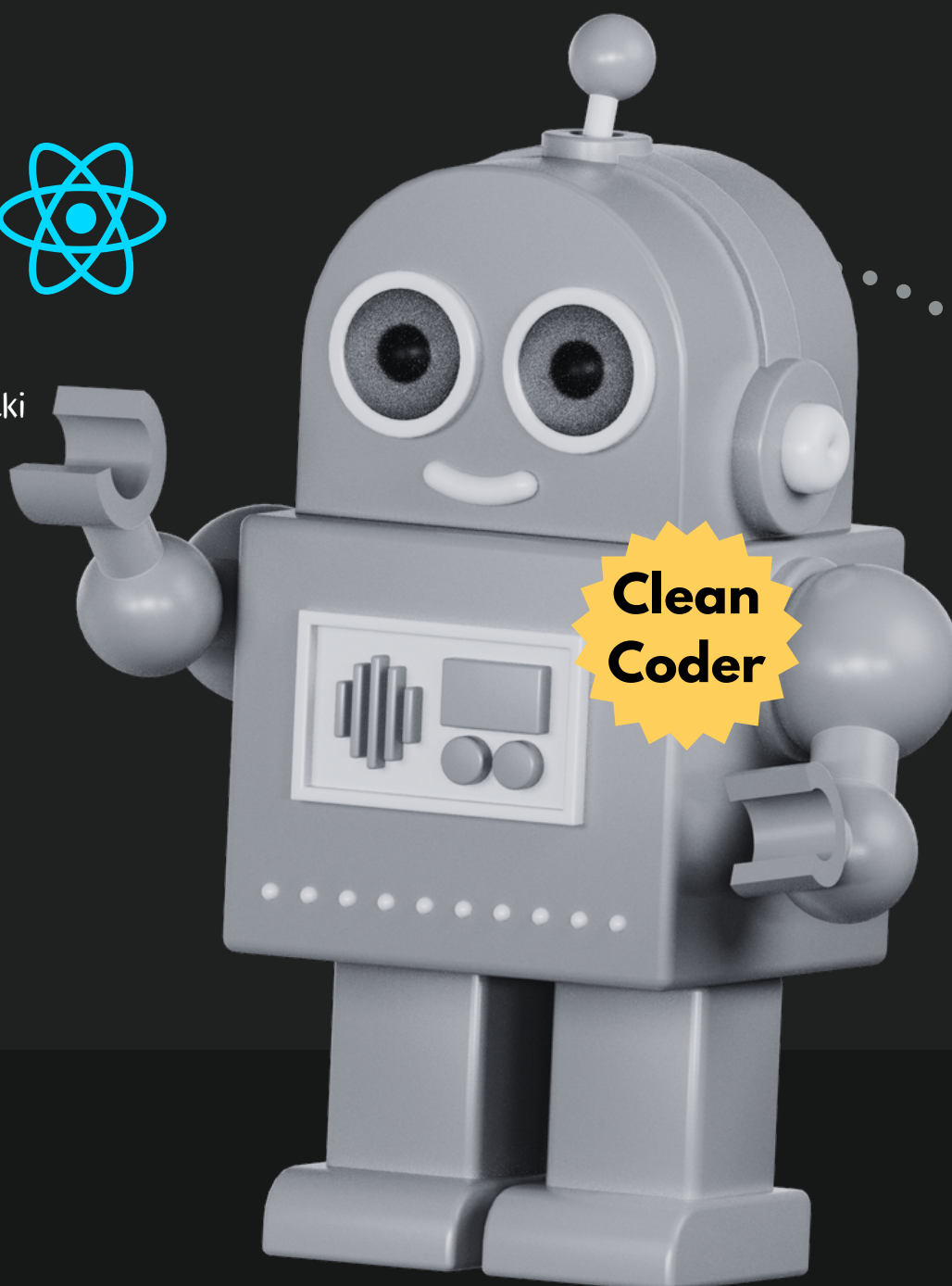
REACT.JS

S.O.L.I.D

PRINCIPLES



@kacper.hernacki



Clean
Coder

JS





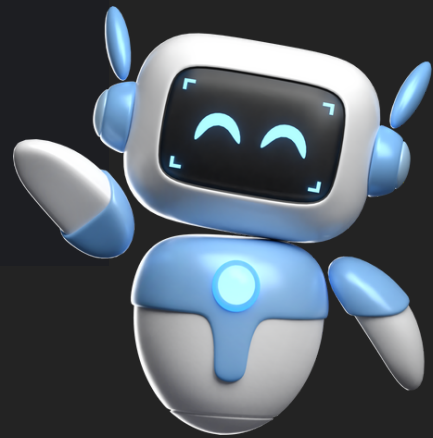
Single Responsibility Principle (SRP)

A component or module should have one, and only one, reason to change.

```
// UserDataFetch.js
▼ const UserDataFetch = ({ userId }) => {
  // Fetch user data logic
};

// UserForm.js
▼ const UserForm = ({ onSubmit }) => {
  // Form handling logic
};

// UserProfile.js
▼ const UserProfile = ({ user }) => {
  // Display user profile
};
```



This means it should have only one job or responsibility.



Open/Closed Principle (OCP)

Software entities should be open for extension but closed for modification.

```
const withClickLogger = (WrappedComponent) => (props) => {  
  const handleClick = () => {  
    console.log('Button clicked');  
    if (props.onClick) props.onClick();  
  };  
  
  return <WrappedComponent {...props} onClick={handleClick} />;  
};  
  
const ButtonWithLogging = withClickLogger(Button);  
  
// Usage  
<ButtonWithLogging onClick={() => console.log('Original click handler')} />
```

This means you should be able to add new functionality without changing existing code.



Liskov Substitution Principle (LSP)

Objects in a program should be replaceable with instances of their subtypes without altering the correctness of the program.

```
const ArticleContent = ({ text }) => <div>{text}</div>;
const VideoContent = ({ src }) => <video src={src} autoPlay />;

const Content = ({ contentType, contentProps }) => {
  const ContentComponent = contentType === 'video' ? VideoContent : ArticleContent;
  return <ContentComponent {...contentProps} />;
};
```



Interface Segregation Principle (ISP)

No client should be forced to depend on methods it does not use.

```
const UserProfile = ({ name, age }) => {  
  // Use only name and age, ignoring other props  
};  
  
UserProfile.propTypes = {  
  name: PropTypes.string.isRequired,  
  age: PropTypes.number.isRequired,  
};
```



Dependency Inversion Principle (DIP)

High-level modules should not depend on low-level modules. Both should depend on abstractions.

```
const UserData = ({ fetchData, userId }) => {  
  useEffect(() => {  
    fetchData(userId).then(data => {  
      // Handle user data  
    });  
  }, [fetchData, userId]);  
  
  // Render user data  
};
```

Furthermore, abstractions should not depend on details. Details should depend on abstractions.



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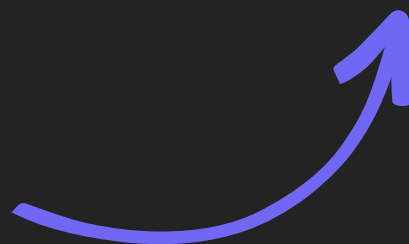
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