

**S02**

**JavaScript  
TypeScript  
Patterns**

This is to certify that

Ivan Karbashevskyi

Successfully completed Metatech course,  
certification, and all required examinations



## **Patterns 2025 for JS/TS**

**Training topics:** GRASP and SOLID for JavaScript and TypeScript, Gof Patterns: Creational patterns, Abstract factory, Builder, Factory, Factory Method, Prototype, Singleton, Structural patterns: Adapter, Bridge, Composite, Decorator and Wrapper, Facade, Flyweight, Proxy, Behavioral patterns: Chain of responsibility, Middleware, Command, Interpreter, Iterator, Mediator, Memento, Observable and Observer, EventEmitter, EventTarget, State, Strategy, Template method, Visito, GRASP patterns: Information expert, Creator, Controller, Indirection, Low coupling, High cohesion, Polymorphism, Protected variations, Pure fabrication, SOLID: Single responsibility principle, Open/closed principle, Liskov substitution principle, Interface segregation principle, Dependency inversion principle, Coding conventions, Refactoring, Code review, Antipatterns, asynchronous primitives, multilayer approach, race condition, Inversion of Control and Dependency injection, Error handling including async code, Memory and resource leaking, refactoring and optimizations, Patterns and Antipatterns, Dependency management, multi-paradigm programming, Promise, Future, Thenable, How to improve code quality and work in team on large complex applications

**Date**

2025 Nov 17

A handwritten signature in black ink, appearing to read "Timur Shemsedinov".

**Metaria Chief Architect**

Timur Shemsedinov