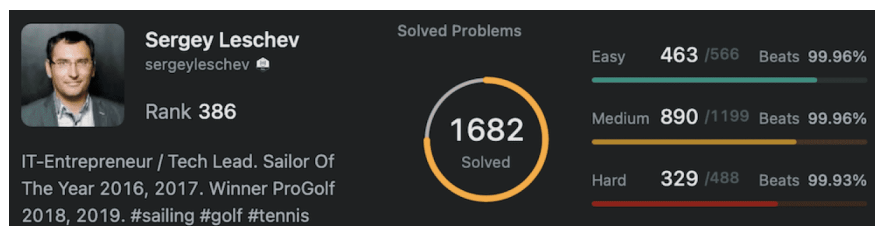


S.Leschev iOS Developer Roadmap



Awards

Ranking #Dev: Global TOP 300 ([Certificate](#))



Languages: Swift, Shell, Database (T-SQL, PL/SQL, MySQL), Concurrency (Python3).

Algorithms: linked lists, binary search, hash table, queue/stack, dfs/bfs, sort, heap/hash, two pointers, sliding window, tree, greedy problems etc.

Golden Award Muad'Dib's Challenge



Languages: Swift.

Algorithmic skills: Dynamic programming, Greedy algorithms, Binary search, Stack and Queues, Sorting, Time Complexity.

Contest: Algorithms, Data Structures.

Tapping on a link will take you to relevant certificates.

iOS

- Languages
 - Swift
 - Closures
 - Initializers
 - Generics
 - Protocols
 - Structs
 - Enums
 - Runtime
 - Method dispatch
- Memory management
 - Stack and Heap
 - Value vs Reference type
 - MRC
 - ARC
- Weak references
 - Retain cycles
 - Garbage collection
 - Memory leaks
 - Shallow and deep copying
 - Autorelease pool
- Multithreading and concurrency
 - POSIX and NSThreads
 - Perform selector family
 - GCD
 - NSOperation(Queue)
 - Runloop
 - Synchronization
 - Problems
 - Race condition

- Deadlock
 - Readers–writers problem
- Cocoa Touch
 - UIKit
 - UIApplication
 - States
 - UIApplicationDelegate
 - UIViews
 - UITableViews
 - UICollectionViews
 - Layers
 - Layout
 - Frame–based
 - Autolayout
 - UIStackView
 - Animations
 - Transform
 - Navigation
 - UINavigationController
 - Lifecycle
 - Foundation
 - Notifications vs Delegation vs Observing
 - Collections
 - Networking
 - Serialization
 - NSCoding
 - Codable
 - JSON
 - XML
 - Protobuf
 - UserNotifications
 - Core Location
 - Core Motion

- [Work in background mode](#)
- Software Architecture
 - Design Patterns
 - Cocoa
 - Abstract Factory
 - [Class cluster](#)
 - Adapter
 - Command Pattern
 - Chain of Responsibility
 - Decorator
 - Delegation
 - Categories
 - Facade
 - Memento
 - Observer
 - Proxy
 - Receptionist
 - Singleton
 - Template Method
 - MVC
 - [Architectural](#)
 - [MVC](#)
 - [MVVM / UIKitPlus](#)
 - MVP
 - [Clean architecture](#)
 - [VIPER](#)
 - [RIBs](#)
 - [Coordinators](#)
 - [Creational](#)
 - Factory
 - Abstract Factory
 - Builder
 - Factory Method

- Object Pool
- Prototype
- Singleton
- Structural
 - Adapter
 - Bridge
 - Composite
 - Decorator
 - Facade
 - Flyweight
 - Proxy
- Behavioural
 - Command
 - Chain of responsibility
 - Interpreter
 - Iterator
 - Mediator
 - Memento
 - Observer
 - State
 - Strategy
 - Visitor
- Concurrency
 - Anti-pattern
- Design Principles
 - SOLID
 - Inversion of Control
 - Dependency Injection
 - Service Locator
 - Protocol-Oriented Programming
- Dependencies management
 - Cocoapods
 - Carthage

- [Swift Package Manager](#)
- Project structure and File/Group organisation
- Version Control Systems
 - [Git](#)
- Debugging
 - [Instruments](#)
 - Best practices
 - Checklists
- UX
- Caching and Persistency
 - [Core Data](#)
 - [Realm](#)
- Testing
 - [Unit Tests](#)
 - Snapshot Tests
 - Functional test
 - UI Tests
 - [TDD](#)
 - [BDD](#)
- Performance optimization
 - Increase FPS
 - Decrease memory footprint
- Code signing
- Tools
 - IDE
 - Xcode
 - [Interface Builder](#)
 - Swiftlint
 - Sourcery
 - [Fastlane](#)
 - Charles
- Continuous Integration
 - Github Actions / Jenkins

- Xcode server
- Security
 - [Keychain](#)
- tvOS
 - [Focus interactions](#)
- WatchKit
- Programming Paradigms
 - Object-Oriented
 - Functional
 - Functional Reactive Programming Frameworks
 - [React Native](#)
 - [RxSwift](#)
 - RxRealm, RxDataSources
 - Combine

Computer Science

- ✓ Computer Science knowledge
 - ✓ Algorithms cert
 - ✓ Sorting cert
 - ✓ Graph Theory cert
 - ✓ Trees cert
 - ✓ Strings cert
 - ✓ Greedy cert
 - ✓ Dynamic Programming cert
 - ✓ Bit Manipulation cert
 - ✓ Recursion cert
 - ✓ Game Theory cert
 - ✓ NP Complete cert
 - ✓ Big-O notation cert
 - ✓ Abstract Data Types cert
 - ✓ Stack cert
 - ✓ Array cert
 - ✓ List cert
 - ✓ Map cert
 - ✓ Multimap cert
 - ✓ Set cert
 - ✓ Multiset (Bag) cert
 - ✓ Graph cert
 - ✓ Tree cert
 - ✓ Queue cert
 - ✓ Priority Queue cert
 - ✓ Double-ended priority queue cert
 - ✓ Double-ended queue cert
 - ✓ System design
 - ✓ Design large-scale systems / Amazon, Dropbox, Instagram, Facebook, Netflix, Pinterest, Twitter, Uber, Youtube

Project Guidelines

A set of best practices in my projects.

- ✓ [Git](#)
- ✓ [Documentation](#)
- ✓ [Environments](#)
- ✓ [Code Style](#)
- ✓ [Logging](#)
- ✓ [API](#)

Licenses & certifications

- 🏆 LeetCode Global TOP 300 (Swift: [Certificate](#), Sources: [Swift](#)).
- 🏆 Golden Award Muad'Dib's Challenge (Swift: [Certificate](#), Sources: [Swift](#)).
- LinkedIn Skill Assessment (Mobile): [Swift \(Programming Language\)](#), [Object-Oriented Programming \(OOP\)](#), [Objective-C](#), [C++](#), [Ionic](#), [JSON](#), [XML](#), [Android](#), [Kotlin](#), [Maven](#), [Java](#), [REST APIs](#).
- 🍏 Health & Fitness iOS App / [Fitness Motivation](#) / AppStore (Sources: [SwiftUI](#)) @ S. Leschev.
- 🍏 Utility MacOS App / [Calc-It](#) / [Core](#) (Sources: [Swift](#)) @ S. Leschev.

Latest Projects

[🍏 iOS] Live Stream & Video Chat is the best streaming and video chatting tool.

Role: Senior iOS Developer, Tech Lead. Development architecture and new features.

Tech Stack:

- Swift 5+.
- VIPER (Dependency Injection, Assembly, Services, Interactor, Presenter, State, Adapter) + MVVM (Combine, PromiseKit).
- Alomofire, Decodable, Combine.
- GCD/Operations.
- Agora Video SDK, Chat SDK, Beautification SDK. WebRTC. GRPC.
- Modular architecture (Frameworks, Development Pods).
- SwiftGen (Localization, Image, Colors).
- SwiftLint.
- Auth: Facebook, Google, Apple ID.
- Firebase, Crashlytics, Amplitude, AppsFlyer.
- Push-notifications (Firebase).
- UIKit, Autolayout, Core Animations, Skeleton, Lottie.
- Git (Flow, CodeReview), Figma.

[🍏 iOS] Health & Fitness iOS App

Role: Senior iOS Developer, Tech Lead. Development architecture and new features.

Tech Stack:

- Swift 5+.
- Clean Swift Architecture.
- Alamofire, ObjectMapper.
- GCD/Operations.
- AVFoundation, Streaming: HLS (Cloudflare/nginx).
- AirPlay [Composition (video+audio), Secondary Display].
- Realm.
- Modular architecture (Frameworks, Development Pods).
- SwiftGen (Localization, Image, Colors).
- SwiftLint.
- Auth: Facebook, Google, Apple ID, Fitbit.
- Amplitude, Crashlytics, AppsFlyer (+OneLink).
- Analytics: Facebook (SKAd + Conversions API).
- Push-notifications (OneSignal).
- UIKit, Autolayout, Core Animations, Lottie.
- Git (Flow, CodeReview), Zeplin, Figma, Sketch.

[🍏 iOS] Health & Fitness iOS App (Motivations Coach, Pet Project)

Role: iOS Developer.

Tech Stack:

- SwiftUI.
- Watch Extension (WatchOS).
- AppClip Extension.
- Widget (iOS 14).
- ObjectMapper.
- URLSession.
- Keychain.
- Lottie.
- Push Notifications.
- GCD/Operations.
- Git, Figma, Sketch.

Website: motivations.coach

Sources: [SwiftUI](#)

Contacts

I have a clear focus on time-to-market and don't prioritize technical debt.

 #startups #management #cto #swift #typescript #database

 Email: sergey.leschev@gmail.com

 LinkedIn: <https://linkedin.com/in/sergeyleschev>

 Twitter: <https://twitter.com/sergeyleschev>

 Github: <https://github.com/sergeyleschev>

 Website: <https://sergeyleschev.github.io>

 PDF: [Download](#)

ALT: SIARHEI LIASHCHOU