


S.Leschev iOS Developer Roadmap

Awards

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



Sergey Leschev
sergeyleschev

Rank 386

IT-Entrepreneur / Tech Lead. Sailor Of The Year 2016, 2017. Winner ProGolf 2018, 2019. #sailing #golf #tennis

Solved Problems

1682

Solved

Easy

463 / 566

Beats 99.96%

Medium

890 / 1199

Beats 99.96%

Hard

329 / 488

Beats 99.93%



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
 - ☒ UIViewController
 - ☒ 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



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