



# Korobin Sergey

22 years old (13/09/1997)

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## iOS Developer

### Work experience

September 2018

– Present

1 year 9 months

#### **Software Architect. Full Stack Developer**

Startup. An online educational product for the Math state exam preparation, focused on transferring the effectiveness of a tutor into a mobile device.

Technology stack: Swift, KaTeX, WebKit, CoreData, Flask, NGINX, Gunicorn, PostgreSQL

##### **Responsibilities:**

- Engaged in the design and implementation of: user scenarios; system modules which conforms reliability and maintainability standards; data flows between them as well as issues of system consistency and security
- Formulated and clarified requirements for all system modules
- In a mobile application I am responsible for parts of SOA: Network Service and a separate service related to saving data to an internal database (CoreData); in the interface - for the html content rendering system and the state system of some screens
- Develop and maintain Flask REST API; compose complex SQL queries

##### **Achievements:**

- Developed asynchronous scenario chain which consists of local checks, network requests, writing / reading data to internal storage (CoreData)
- Ported, implemented and optimised the speed of the html content construction and rendering system in WKWebView using the assembled component based on the KaTeX engine
- Introduced a dynamic system of states into the interface components (re-compilation of the interface depending on the state)

January 2020

– April 2020

3 months

#### **iOS Course instructor - American Center in Moscow (AMC)**

Conducted «App Code Academy» course aimed for implementing two iOS apps using Swift and going through a full development cycle (from idea to pre-release state) for 2 teams of mixed experience and age.

August 2019

– August 2019

1 month

#### **iOS Course instructor - American Center in Moscow (AMC)**

Conducted classes (in the form of lectures and seminars) of iOS development for schoolchildren and early years students. During the intensive course several goals were achieved: acquaintance with the syntax and development environment for beginners, the formation of their first individual prototype application.

August 2018  
– September 2018  
2 months

## **iOS Developer**

The project is the winner of the IT-Planet 17/18 international olympiad. It is a social online service for the interactive search of help for people with disabilities and people who have difficulties by connecting the user with the nearest volunteer. Project is a participant of 2 specialised hackathons. Project is completed to a pre-release state.

Technology stack: Swift, Alamofire, CoreData, MapKit, CoreLocation, CocoaPods interface components

<https://github.com/Korobych/SocialApp>

### **Responsibilities:**

- Implemented a client side (iOS application) of client-server solution

### **Achievements:**

- Built the network interaction of the application with the server by writing an easily configurable API Network application layer
- Added the ability to synchronise and display the current geolocation of several service users on a map in real time
- Proposed and implemented a system for restoring an active session in case of errors

May 2018  
– June 2018  
2 months

## **iOS Developer**

Self-driven project, winner of the international olympiad IT-Planet 17/18, a mobile application (tool) for finding things using iBeacon technology for discovering and observing and AVSpeechSynthesizer technology for producing synthesised speech from text.

Technology stack: Swift, CoreLocation, CoreBluetooth, AVFoundation

<https://github.com/Korobych/ThingsBeacon>

### **Achievements:**

- Added support for the rarely used at the time of development ability to transform an iOS device into the role of a signal distributor instead of typical iBeacon signal receiver

October 2018  
– February 2019  
4 months

## **iOS Developer**

A mobile application aimed to bring interactivity to the process of reading the «Third Ingredient» book. The technical task was agreed with the customer.

<https://github.com/AndreySizov/TheThirdIngredient> (created in cooperation with the owner of the repository)

### **Achievements:**

- Implemented the ability to control the playback of multiple audio tracks
- Fine-tuning the redrawing of the interface when changing the orientation of the device (portrait, horizontal)

January 2016  
– January 2017  
1 year

## **Manager. iOS Developer**

Student organisation "Business in the Style of Ru" at the Higher School of Economics is raising specialists and developing projects for the benefit of the university. During the period of participation I gained experience in project development and later, as the head of the mobile department, interviewed new members of the organisation, conducted lectures describing basics of the Swift language, and was involved in mentoring of the organisation's mobile developers team (iOS).

## Education

Master's degree, 2021	<b>National Research University Higher School of Economics, Moscow</b> Faculty: Computer Science Specialization: System and Software Engineering
Bachelor's degree, 2019	<b>National Research University Higher School of Economics, Moscow</b> Faculty: Business and Management Specialization: Business Informatics

## Additional education

- Tinkoff Fintech School - iOS track (Winter of 2017-2018)
  - Course project (<https://github.com/Korobych/TinkoffChat>)
  - Test task for the interview (<https://github.com/Korobych/Tinkoff-News>)
- Course on Stepik platform developed by Yandex Academy «Разработка под iOS Начинаем» and the next linked course «Взлетаем»
  - Course project (<https://github.com/Korobych/NoteApp>)
- Tinkoff Fintech Middle - advanced iOS track (February - March of 2020)
  - Course project (<https://github.com/CrazyMillerGitHub/TFInvest>)

## Skills

- Experience with **Git** usage in team's workflow
- Deployment of **SOA (Service Oriented Architecture)** in multiple projects
- Frameworks: **Alamofire, GCD, Operations, CoreData, Firebase, MapKit, CoreLocation, CoreBluetooth, MultipeerConnectivity, WebKit, Core Graphics**
- Interface development: **Autolayout, Storyboard, XIB, in-code**
- Building client-server interaction: **URLSession, Codable, JSON**
- Experience in connecting and writing **REST API** from scratch, experience in programming with **Python**
- Knowledge with practical following of **OOP principles**, experience in programming with **C#**
- **CocoaPods**
- Experience with **relational, NoSQL, graph** databases
- Basic **Linux administration skills**, deployment of **Docker containers, bash scripts**
- **JavaScript Web Applications** development experience
- Scrum methodology deep knowledge and experience of team work

## Languages

Russian — Native  
English — C1 (Advanced). IELTS Academic certificate 2019