Alexander Grebenyuk

About Me

Software developer from Moscow. I have experience of working for both small startups and large internet companies. Of particular interest to me is Swift, which I started to experiment with from the day one. I am committed to the open source development and I've personally authored multiple frameworks.

Experience

- **iOS Developer** at **CleverBits**, June 2015 - Present
- **iOS Developer** at **Mail.Ru**, February 2013 - May 2015 (2 years 4 months)
- **iOS Developer** at **Aplica**, July 2012 - February 2013 (8 months)
- **Senior Quality Engineer** at **Performance Lab**, March 2011 - May 2012 (1 year 3 months)

Projects

Fitmeup by CleverBits (Objective-C)

My contribution included some of the most complex screens, session management, storage, migrations, support for in-app purchases and auto-renewable subscriptions, and more. I've also set up a continuous delivery for this project using Fastlane.

My World by Mail.Ru (Objective-C)

Our team was responsible for developing from the ground up a full featured iOS client for a social network. Some of my more notable contributions include:

- *Photosafe* (cloud photo storage), which I drove end-to-end as lead of iOS developer group. One of its most challenging requirements was offline support with fast and reliable sync. My suggestion - which we went with - was to use delta updates with a single endpoint. We also faced other challenges like setting up concurrent Core Data and optimizing it for large datasets, clustering photos on a map, and more.
- *Instant Messenger* on top of Comet. It had to be optimized for an iPhone 4 - common at the time. The solution included background layout calculations and memoization. We shipped it in just over a month.
- I personally drove most of the media features. The most prominent one was *Image Editor* which I made from the ground up. It featured non-destructive edits, intermediate cache, multiple adjustments including Core Image filters, etc.

- I authored multiple modules used in the project including an image loader that was later open sourced.

Storymaker by Mail.Ru (Objective-C)

Over the last 4 months at Mail.Ru I was involved in prototyping a new blogging app. We've completed most of the core functionality, but it was never released to the public.

Vincent Decor by Aplica (Objective-C, C#)

One of its most intriguing features was *Decorator*. The user would take a picture of a room and the app would automagically put decorative effects on the walls. It was built using OpenGL ES 2.0 which I had no prior experience with. I quickly got familiar with it and even incorporated some performance best practices including VAO, VBO, mipmapping.

I was also responsible for some of the back-end development using C#.

Open Source

Nuke (Swift)

Image loading, processing, caching and preheating

Arranged (Swift)

Open source replacement of UIStackView for iOS 8

Promise (Swift)

Micro Promise/A+ under 100 sloc

Preheat (Swift)

Automates prefetching of content in UITableView and UICollectionView

DFCache (Objective-C)

LRU cache with fast metadata built on top of UNIX extended file attributes

DFImageManager (Objective-C)

Image loading, processing, caching and preheating.

DFJPEGTurbo (Objective-C)

libjpeg-turbo wrapper (accelerates baseline JPEG compression using SIMD)

Nuke Alamofire Plugin (Swift)

Plugin for Nuke that replaces networking stack with Alamofire

[Nuke AnimatedImage Plugin](#) (Swift)

Plugin for [Nuke](#) that uses [FLAnimatedImage](#) to enable GIF support

Languages

- Russian
- English

Skills

Primary

- Swift, Objective-C

- Xcode
- Git
- Fastlane
- CocoaPods, Carthage
- Core Data
- Auto Layout (VFL, PureLayout)
- IAP Purchases, GCD, Core Animation, Core Image, Photos Kit, Core Text, Core Graph, Keychain Services, XCTest, Core Motion, AVFoundation, ARC/MRC, etc
- IoC Containers
- RxSwift, ReactiveCocoa

Secondary

- C, C++, C#
- Ruby, Bash

- Wireshark
- OpenGL ES 2.0
- Web (HTML, CSS)
- Jekyll

Education

- RSUH, Moscow - Specialist in Information Security, 2007 - 2012.

Courses:

- Bauman MSTU, Moscow - "Programming and Databases", 2010

- Bauman MSTU, Moscow - "The C Programming Language", 2010

Other Interests

In addition to technical activities I enjoy traveling, and photography.

Contacts

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- github
- twitter
- linkedin