



Kirilov Alexandr Vladimirovich

Senior iOS Developer (Objective-C(CPP/C)/Swift)

Senior Qt/C++ Mobile Cross-Platform (iOS/Android) Developer (Qt/QML/C++/C)

Senior Erlang Developer

Technical Lead / Architect

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Whole IT experience +20 years, last 10 years leading projects (biggest team 18 developers in stable part of the team and additionally about 5-10 contractors). Been lecturing “The theory of information” and “The theory of databases” in one of universities at Saint-Petersburg (Russia). Performing a lot of architectural RnD tasks for the companies of real sector of economics (GPS Tracking, unmanned vessels, security in case of small and middle business and etc).

Specialized on developing full stack of client-server solutions within high level of security. Experienced on building high-load (50K connections per second) and big-data infrastructure (long term data storages for +40 years and 7000Tb of capacity). Clients application for server side developing mostly with Qt by my own, but been architect and leader on projects that using web-UI based on HTTPS and React Native library.

Most of my projects covered by NDA. All of public information is in articles mentioned below.

About mobile and Qt for iOS/Android.

Developing with Qt from 2012-2013. Mostly been developing application with high level of security for mobile devices iOS/Android/Blackberry and experimental for Sailfish. Desktop applications is optional too. Mostly for MacOS but have a lot of experience in leading teams that developing for Windows/Linux/Macos/FreeBSD. A lot of projects developed with Objective-C/Objective-C++/C++ for iOS/MacOS, especially Qt modules that using iOS Native and Android Native solutions.

Have my own Qt License since 2014.

– <https://www.youtube.com/@ArboreusSystems> YouTube channel about mobile development with Qt. For now Qt primary tech that is using by me.

– https://github.com/ArboreusSystems/arboreus_examples code samples qt5, qt6, c++, objective-c and etc

– https://github.com/ArboreusSystems/arboreus_bash_library/tree/master/Prebuild building scripts for libbitcoin (<https://github.com/libbitcoin>) that is allowing to develop crypto currency applications with Qt. The Qt application with libbitcoin examples <https://youtu.be/DXmp6xOsyxM> <https://youtu.be/d72yAEjER2k> <https://youtu.be/OltVeivbypo>

– https://github.com/ArboreusSystems/arboreus_modules_free собственная my own library that helping develop applications with Qt. Especially in context of mobile applications.

- Lecturing Qt for different companies. Mostly for Qt for mobile. For desktop a lot of information in internet. No sense to lecture it.
- Performing a lot of RnD task for the usage Qt for different purpose and developing highly secured applications.

Virtualization and server side development.

- Been creating from scratch developers environment for remote teams based on FreeBSD/Jail. Some of this topic described in this article https://github.com/ArboreusSystems/arboreus_articles/tree/master/freebsd/private_cloud
- Been developing mobile devices farms based on <https://youtu.be/5aOCpBb4BNI> и <https://habr.com/ru/post/572668/>
- For experiment and research purpose, based on CBSD (example of Oleg Ginzburg <https://youtu.be/zq2rYQ84DiQ>) been creating virtual Android devices and researching for the case of virtual PLC Controllers
- Been building private clouds based Bhyve/FreeBSD/CBSD
- This Erlang library developed by me for the purpose of using in high-load projects HTTPS REST API
- Under my supervision, at time of my lecturing in on of Russian University, student were developing scalable cloud solution with PHP <https://github.com/cmsium> (project paused). There are lots of functionality already developed and planned (on fly server adding, balancing, security and etc). This solution based on own experience of developing file sharing system at 2008-20013 years. +1000 servers (Letitbit, Shareflare and etc. Very popular project around the world).

About cybersecurity.

- <https://www.medigram.com/> developed whole project from scratch, been leading this project and developing server side with Erlang (High-load HTTPS +50K connections/second), UI/UX design и and lecturing Qt/QML/C++. This is specialized instant messenger for USA Healthcare (HIPAA Compliant) developed like event-driven application where message is only one time of events, where chain of events secured by blockchain for antifraud purpose.
https://github.com/ArboreusSystems/arboreus_articles/blob/master/healthcare/blockchain_implementation_for_patients_flow/eng.blockchain_implementation_for_patient_events_flow.md - this article described “under-the-hood” things of project
https://github.com/alexandrkirilov/kirilov_portfolio/tree/master/interface/medigram Web and Mobile interfaces
<https://youtube.com/shorts/orxx4tMsEBk> live video of iOS/Android Qt/QML/C++ application.
- https://github.com/ArboreusSystems/arboreus_articles/blob/master/it_notice_for_mariners/eng.it_notice_for_mariners.md articles about informational security for seamans (not finished)
- https://github.com/ArboreusSystems/arboreus_articles/blob/master/blockchain/eng.blockchain.md articles about developing blockchain solutions. This articles describing signals-messages based on blockchain
https://github.com/ArboreusSystems/arboreus_articles/blob/master/blockchain/bc_example_connected_servers/eng.bce_connected_servers.md

– Been developing project for long-term data storage, +40 years for Medigram and payment system fitted for requirements of PCI DSS with antifraud

– Based on this article https://github.com/ArboreusSystems/arboreus_articles/blob/master/data_storage/understanding_data_storage/eng.understanding_data_storage.md consulting about building private data storages.

Beside all of it.

– Highly experienced in design, first education - Artist/Designer Here few examples https://github.com/alexandrkirilov/kirilov_portfolio

– Lecturing in one of universities in Saint-Petersburg (Russia) The disciplines: “The theory of information” and “The theory of DB” and “PHP”. Few articles related to the how explained by me some of IT staff for students https://github.com/alexandrkirilov/kirilov_articles/blob/master/infromational_etudes/prerequisites/eng.prerequisites_for_informational_etudes.md This article the “riders digest version” of how by me were explained meaning of the term “information” https://github.com/alexandrkirilov/kirilov_articles/blob/master/infromational_etudes/information/understanding_information/eng.understanding_information.md

– 2 of my student got PHP ZEND Certified engineer status after year with half of my lectures.

Working format.

Working only remotely. There might be trips to office for the case of key meetings. Could be hired like remote private contractor or on C2C (Have small companies in Russia, Kyrgyzstan. This is not like company-company, it's just only me. It's the solution to avoid any troubles with any restrictions and visa in any country).

Possible locations:

- Russia (motherland and citizenship) UTC +0300
- Kyrgyzstan UTC +0600
- Uzbekistan UTC +0500
- USA in LA or SF mostly

Adopted to be working remotely with SF/LA based companies and Brisbane/Perth (Australia).

The rate started from 30 to 50 USD/hour if developing something. If there leading from 45 to 70. The precise amount could be defined only after clear imagination of what you want from me. If there just need only my knowledge that might be discussed in 1-4 hours – rate started from 800USD/Hour. If there need to be lecturing or mentoring it need to be negotiated based on size of the course and the topic.