Miguel (Miquel) Beltran

Freelance Developer (Android, Flutter, ML)

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Projects Portfolio

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——— Android

from 05/2016 **Nebenan.de Android App**, Good Hood GmbH, Berlin, Germany. to 11/2018

Roles Lead Android Developer

Languages Kotlin, Java Installs 500.000+ Score 4.2 Stars

Play Store https://play.google.com/store/apps/details?id=de.nebenan.app

- o Social network app that connects neighbours, institutions and locals businesses.
- o Developed initially in Java and then ported to Kotlin.
- o Integration with Firebase Analytics, Facebook SDK and Firebase Notifications.
- Stack includes RxJava2, Dagger (later Koin), Retrofit, Mockito, RxBindings and Architecture Components including Room, ViewModel and LiveData.
- o Good testing coverage with Espresso instrumentation tests and unit tests.
- o Team composed of three developers. Me as lead and another two as junior developers.









from 06/2013 VideoPlayer SDK Library, castLabs GmbH, Berlin, Germany. to 12/2015

Roles Technical Lead, Software Developer

Languages Java, C++

Customers Wall-Mart (VUDU), Fullscreen.com, Mubi, Stan.com.au, Primetime

URL http://castlabs.com/products/video-player-sdk/

- o Design, development of a multiplatform modular Video Player library for Android.
- o Main features include Adaptive Streaming playback with MPEG-DASH, HLS and Smooth Streaming, AVC(h264) and HEVC(H265) video decoding, surround audio support with DTS and Dolby technology and content protection with DRM using OMA and Widevine Modular.
- o Common components of the player are developed in C++ and can be used on any platform including Android and iOS.
- This project uses NDK (Native Development Kit) and JNI (Java Native Interface) for the multiplatform components in Android.
- Android components extended from Open Source Google's ExoPlayer.
- Support from API 16 with MediaCodec API.
- Support from API 18 with MediaDrm API.
- o Project organized with Agile methodology. Planned release cycle and continuous integration.
- o It is now used by top media player apps like VUDU (5.000.000 Downloads).

from 03/2012 Ultraviolet Android Player App, castLabs GmbH, Berlin, Germany.

to 10/2014

Roles Technical Lead, Software Developer

Languages Java, C++

Customers Play Store app, not released

URL http://castlabs.com/

- o Development of an Ultraviolet (uvvu.com) player for Android.
- o Design and development of an Android native library in C++ capable of playing Common File Format movies with the Android OS player, with OMA DRM for rights management.
- App planned to be released to the market as the first Android "Common File Format" Ultraviolet player.
- o Project pivoted into the VideoPlayer SDK Library.

iOS

from 06/2013 VideoPlayer SDK Library, castLabs GmbH, Berlin, Germany.

to 12/2015

Roles Technical Lead, Software Developer

Languages Objective-C, C++

Customers Unreleased

URL http://castlabs.com/products/video-player-sdk/

- Video Player library distributed as an iOS Framework.
- o Features include Adaptive Streaming playback with MPEG-DASH, HLS and Smooth Streaming, AVC(h264) video decoding and content protection with DRM using OMA.
- Common components of the player are developed in C++ and can be used on any platform including Android and iOS.
- Player based on the VideoToolbox.framework from iOS 8.

from 01/2011 **Mobile Bank**, Win Systems Solutions S.L., Barcelona, Spain. to 06/2011

Roles Software Developer

Languages Objective-C

Customers Casinos with Enterprise Distribution URL http://www.winsystemsintl.com

- o iPod application with a magnetic card reader. Casino employees use the application to charge with credit the clients cards.
- The application reads he magnetic card client ID and connects to the casino system to
 obtain and display all client information, the casino employee can recharge the client card
 by introducing the credit amount and the personal PIN.
- Application developed using xcode and deployed internally using the Apple Developer Enterprise Program to the employees devices. The application features an internal version control and update system and also connects using secure sockets connection with certificates.

from 01/2011 **iStats**, Win Systems Solutions S.L., Barcelona, Spain. to 06/2011

Roles Software Developer

Languages Objective-C

Customers Casinos with Enterprise Distribution URL http://www.winsystemsintl.com

- o iPad application to view sales statistics from casinos with graphical data representation. The application connects to the casinos using a secure socket connection and allows to view statistics of sales in a daily/weekly/monthly basis.
- Application developed using xcode and deployed internally using the Apple Developer Enterprise Program to the employees devices. The application features an internal version control and update system and also connects using secure sockets connection with certificates.

Windows Platforms

from 06/2011 Lottery Sales System, Win Systems Solutions S.L., Barcelona, Spain. to 10/2011

Roles Software Developer Languages C-Sharp, SQL

Customers Bigaboom.ru

URL http://www.winsystemsintl.com/en/products/lottery-systems/lykos/

- o Development of the scanning and branding processes, featuring image recognition algorithms.
- o Travel to Moscow for project delivery and on-site support.
- C-Sharp .Net application with Microsoft SQL Server.

from 01/2009 Wigos, Win Systems Solutions S.L., Barcelona, Spain.

to 12/2011

Roles Software Developer

Languages C-Sharp, SQL

Customers Casinos

URL http://www.winsystemsintl.com/productos/casino-managment-system/

o Casino management and cashier software in Visual C-Sharp and Microsoft SQL Server.

from 01/2009 Virtual Slot Games, Win Systems Solutions S.L., Barcelona, Spain.

to 12/2011

Roles Software Developer

Languages

Customers Casinos, video slot machine systems

URL http://www.winsystemsintl.com/en/products/wingames/

o Development of virtual slot machine games in C.

Linux Platforms

to 12/2008

from 08/2006 Network Management System, W-Onesys S.L., Sant Cugat del Vallés, Spain.

Roles Software Developer

Languages Java, C

Customers Universitat Politecnica de Catalunya, i2cat

URL http://www.winsystemsintl.com/en/products/wingames/

- o Network management system for the optical network hardware developed by the company.
- o The application features a client application developed with Eclipse Rich Client Platform (Eclipse RCP) in Java and a server application developed with JBoss and Enterprise Java Beans 3.0 and Hibernate technology.
- o Embedded Linux components were developed using C.