

David GONZALEZ

MOBILE APPLICATIONS DEVELOPER

33 years old, 10 years experiences

Synthesis page



Having worked more than 7 years as a mobile applications engineer for different companies, I have acquired knowledge that I want to provide as a freelance.

My passion for technical developments and pedagogy let me support customers on different highly technological purposes, where my advices were appreciated. Furthermore, my behavior calm and very rigorous is an advantage for facing stressful situations.



Contact

- david.gonzalez.freelance@gmail.com
- +33 7 61 31 75 78
- 170 rue de Périole
Bâtiment D escalier P
31500 TOULOUSE
FRANCE

Interests

- Salsa
- Badminton
- Cooking
- Board games
- Flutter article writer

Languages

- English: Professional (written, spoken)
- French: Mother language

Professional career

- 2017 ● Android & iOS Consultant
Freelancer
- 2016 ● Android Expert
Studec
- 2014 ● Android & iOS Developer
Valtech
- 2010 ● Python & Android Consultant
SII

Scholarship

- 2010 ● IT Master, GLRE specialty
Paul Sabatier university (Toulouse III, FRANCE).
- 2008 ● IT License
Paul Sabatier university (Toulouse III, FRANCE).

Skills

- Android → Android Studio / SDK & NDK / Java & Kotlin / material design / play services
- iOS → XCode / Objective-C / Swift / Cocoa touch
- UI/UX Design → Adobe XD / GIMP / Paletton / mockflow
- Multiplatform → Flutter / Cordova / Html5 & CSS3 / javascript / angularJS

Skills

Languages Java (SE, Android) / Objective-C / Swift / Kotlin / Dart / C# .NET / C++ / Power Shell / Python 2 / HTML 5 / CSS 3 / javascript / PHP 5 / MySQL / SQLite

Tools Eclipse / Android Studio / X Code / Visual Studio / Brackets / PyCharm / Git / SVN / Gimp / Wireshark / StarUML / Xmind / JIRA / Bamboo / Confluence / Rational Team Concert / Grunt / Gradle / Ant / TestFlight / HockeyApp / phonegap / IIS

Methodologies Agile (Scrum, Kanban) / UML

Frameworks Android SDK and NDK / iOS SDK / Flutter / Cordova / Node.JS / VueJS

Android Libraries Jpct-AE / Retrofit / GSON / ActiveAndroid / OutBrain / SmartAdd / AfAddSDK / otto / greendao / OpenCV / ad4screen / fabric (Crashlytics, Answer) / play-services (nearby, location, analytics, maps, drive) / facebook- android-sdk / junit / espresso / mockito / DJI SDK / Parrot SDK / VP8 / MP3

iOS Libraries OutBrain / SmartAdd / AfAddSDK / google Analytics / libxml2

Hardware Agilent 8960 / CMU200 / Tuner VSWR / Agilent PXT / CMW500 / Google GLASS

OS Windows 7, 8, 10 / MAC OS 10 / Linux Ubuntu / iOS 7, 8, 9, 10, 11, 12 / Android GB, ICS, JB, K, L, M, N

Professional Experiences

iOS Developer Navblue



Maintenance of iOS applications for aircraft pilots

Duration From 12/2018 To 05/2020 (1,5 years)

Description Maintenance and development of new features for 6 applications of the Flysmart solution for iPad. This solution helps aircraft pilots in every stages of a flight: technical documentation, calculation of take-off and landing distances, calculation of mass distributions, performance calculations (cost management) during the flight.

Context Technical assistance in a team of 7 people (4 developers) managing an offshore team of up to 7 developers (India).

Tasks

- Refactor in Swift of common parts of applications as libraries
- Refactor of inter-application communication in Objective-C and Swift
- Development of functionalities handling avionics data (from aircraft local network)
- Industrialization of the continuous delivery procedure (Gitlab, Jenkins)
- Setting up of a configurable compilation procedure (per customer)
- Analysis and investigation of bugs and new features

Management of the offshore part of the team

Tools and Technologies XCode / AppStore / Git / Jenkins / Gitlab / iOS SDK / libxml2 / Crashlytics / Objective-C / Swift

iOS developer Navblue



IOS application optimizing the costs and performance of an aircraft during flight

Duration From 02/2018 To 11/2018 (10 months)

Description Expertise and development from scratch of an application optimizing cost and performance of a plane during flight. This application integrates two calculation engines supplied by the customer (AIRBUS).

Context In a team of 9 people (6 developers), Agile package with 3-week sprints (1 release). Use of the TDD method for the critical functionalities of the application.

Tasks

- Definition and implementation of the architecture concerning the main technical points of the application
- Implementation of the Agile SCRUM method
- Integration of calculation engines via TDD
- Development of a functional testing solution via Appium

Tools and Technologies XCode / Git / Jenkins / Appium / iOS SDK / Objective-C / Java

Android Expert Atos



Multiple projects

Duration From 11/2017 To 02/2018 (3 months)

Description Integrated into the client team, Android technical expertises and developments about VOIP, audio and video streaming, text to speech, Android system, cartography and drone integration.

Context Team of 9 persons.

Tasks

- Integration of the DJI drone into a mapping application
- Development of the text to speech functionality
- Expertise in the fields of audio and video encoding, bluetooth and wifi communication

Tools and Technologies Android Studio / Android SDK / Java

Android developer Studec



Development of an Android multimedia application about audio / video communication

Duration From 02/2016 To 07/2017 (1,5 years)

Description Development of the Wysiwis for Android, a cross-platform video calling application available on PC, Windows and Android smartphones, offering in-call interaction tools such as document sharing, pointers and drawings on video streams, and messaging.

Context In an international team of 3 people, realization of the product via a V cycle.

Tasks

- Development (specification, design, coding) of technical functionalities: architecture and encoding / decoding of audio and video streams
- Creation of specific graphic components
- UI Design of the new application design
- Team management: 2 engineers (India and Morocco)

Tools and Technologies Android Studio / SVN / Android SDK / Android NDK / VP8 / MP3 / greenDao / H264 / Java / C++

Android developer

Air France



Development of the Air France ticket purchase application

Duration From 07/2016 To 12/2016 (6 months)

Description Development of new functionalities for the Android application for purchasing and managing AirFrance flight tickets. Development of "lost baggage tracking" and "Travel by Air France" allowing users to discover their destination via video, images, points of interest and useful information.

Context In a team of 5 people in Agility (SCRUM), through 2 weeks sprints.

Tasks

- Bugfix
- Development of new functionalities such as "Travel by Air France" and "lost baggage tracking"
- Analysis and implementation of a unit testing framework for the application (with Mockito & Espresso)

Tools and Technologies Android Studio / Android SDK / Git / otto / greenDao / crashlytics / play-services / Java / Mockito / Espresso

Angular.JS, Android and iOS developer

Bayer



Development of the second version of their spreading application

Duration From 07/2015 To 02/2016 (6 months)

Description Development of a second version of the WellSpray application (on Android, iOS and web) bringing together advice tools for farmers on the subject of field spreading. Device native development (Android and iOS), both for phones and tablets and AngularJS development for the web site.

Context European team of 3 people (1 project manager, 1 UI / UX designer, 1 developer) in Agility (SCRUM, 2 weeks sprints).

Tasks

- Implementation of new functionalities via REST web services (Sitecore CMS), on the Android, iOS and web versions of the product
- Bug fixes for version 1
- Implementation of the Agile SCRUM method

Tools and Technologies Android Studio / XCode / Brackets / HockeyApp / Android SDK / iOS SDK / Angular.JS / Java / Objective-C / HTML 5 / Javascript

Android and iOS (English) trainer

Adobe



Android and iOS Trainer

Duration From 04/2015 To 06/2015 (2 times)

Description Animation in English of training courses "Development of an application on iPhone and iPad" in Paris, and "Google Android Development" in London.

Context Training given to 6 ~ 7 people

Tasks

- 5-day Android training
- 5-day iOS training
- Expertise of the NotificationPush library (customer property)

Tools and Technologies Android Studio / XCode / Android SDK / iOS SDK / Java / Objective-C

Android Expertise

INP



Android application expertise

Duration From 11/2014 To 12/2014 (5 days)

Description 5 days expertise concerning technical points of the customer Android application under development. In relation with the development team, creation of POC for avoiding risks about a system of students grading through Android tablets.

Context In technical assistance in the customer site.

Tasks

- POC on connecting and sending data via Bluetooth and Wifi
- POC concerning the automatic deployment of the application

Tools and Technologies Android Studio / Android SDK / Wifi / Bluetooth

Developer, Scrum master, Trainer/Coach INTEL



Development of test tools (hardware and software) for Android, Meego and Windows smartphones

Duration From 08/2010 To 09/2014 (4 years)

Description As part of the construction of smartphones, tablets and connected watches:

Development of a tool testing Android, Meego and Windows smartphones (hardware and software). The main part of the software, in python and running on a computer, run a test campaign (hardware and software). Each test describes a series of commands executed either on equipment (such as 2G, 3G, 4G, Wifi network simulators), or on the smartphone via a dedicated mobile application.

Development of a tool for consulting test reports as a web application. It aggregates, store and displays the results of test campaigns. Among other things, it produces KPIs for INTEL teams and helps detect any bugs (hardware and software).

Creation and animation of training courses about usages of internal tools. These trainings were given in French and English.

Context Agile package, in a team of 12 people (11 developers) spread across the different INTEL teams. Implementation of several SCRUM processes, with each time sprints of 2 weeks.

Tasks

- Definition and implementation of software and hardware testing tools for smartphones and tablets
- Specification, design and coding of specific tests for Telephony and RF Coexistence teams (2G / 3G / 4G, Wifi and bluetooth)
- Development of the Android application (architecture and commands)
- Specification, design and coding of the Windows application
- Development of POC to automate tests on SIM cards
- Development of php scripts to store the results of campaigns and tests in a database
- Creation and animation of training for internal tools, provided in Toulouse, Sophia Antipolis, Bangalore (India) and Santa-Clara (California, USA)

Tools and Technologies Eclipse / Android Studio / PyCharm / Visual Studio 2013 / SVN / Git / Jenkins / JIRA / Android SDK / .NET 3.5 / PHP / Java / Python 2.7 / C# / C++

C++ developer

Atos

C++

Creation of testing tool about MAC / LLC and TCP / IPV4 data storage

Duration From 10/2009 To 07/2010 (8 months)

Description Specification, conception and development of a testing tool called ETERM, generating and sending MAC/LLC and IPV4 frames in pseudo-random way. This tool is also able to replay generated frames, thanks to its UI client.

ETERM is used to tests SNER software, system storing all information coming from aircrafts and traffic control tower.

Context End-of-study internship, integrated into a team of 3 people.

Tasks

- Development of a generator of random frames in MAC / LLC and IPV4 format
- Development of the functionality to replay generated frames
- Development in C ++ of a graphical interface

Tools and Technologies C/C++ / Visual Studio 6 / WinpCap / Wireshark