

Pablo Biagioli

Software Engineer

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EXPERIENCE

Eko Health, Remote — Software Engineer

NOVEMBER 2021 - PRESENT

I joined Eko Health as a Software Developer contractor to provide support and new features for their B2B platform called EkoConnect.

I also developed UI and audio components for Eko, to display/plot real-time PCG and ECG data from bluetooth stethoscopes in Android and iOS. These components are now used widely in all of their customer-facing products, as well as their B2B platform for clinics and healthcare centers.

I also developed a telehealth solution using WebRTC and AVAudioEngine in iOS. This work involved an objective audio testing stage alongside the sound engineering team using tools like Audacity and making custom signal generators and samplers to verify the sound accuracy over the network.

My responsibilities were to provide reliable components with a common dev-friendly API, to use in all their mobile apps. Most of this work included software development, unit-testing, and debugging sessions to measure the performance of our Queues, Timers and other data structures. But this also included working closely with product design to ensure consistency with the company's marketing strategy.

Up And Running Software & ViiMed, Remote — Software Engineer

SEPTEMBER 2020 - NOVEMBER 2021

As a Backend Developer I provided Django support and C# multiplatform support with static code analysis for .NET Core microservices following TDD methodologies.

As a Mobile and embedded systems consultant, I provided software development services for managing physician workflows with top-tier security encryption using Flutter SDK, and for making telehealth video calls using WebRTC, Flutter, WebViews and Bluetooth Low Energy medical devices. I also integrated medical device SDKs from new vendors like EkoHealth stethoscopes in Flutter by using Platform Channels.

As a Flutter developer, I also provided custom plugins for supporting

SKILLS

Java.

Kotlin and Swift.

Android SDK.

C/C++/NDK.

Xamarin.

Flutter.

Docker and Jenkins.

BLE: Bluetooth Low Energy.

Firebase and AWS.

RxJava and Reactor.

MVP, MVVM, MVC and J2EE Patterns.

TDD, Code Coverage and Cyclomatic Complexity.

HONOR & AWARDS

Xamarin Dev Days speaker at UAI University in Rosario, in October 2016.

Cómo te verías na USC?
award given by University of Santiago de Compostela in 2004.

LANGUAGES

Spanish, English, Galician

native SQLite bulk transactions and Desktop support using Flutter FFI (Foreign Functions Interface) package and native C libraries.

Santex & Temenos, Remote — *Mobile DevOps*

APRIL 2020 - SEPTEMBER 2020

Mobile DevOps, with a strong background in Java and native mobile technologies, I provided Software Development Solutions and technical support for Mobile applications. As a DevOps I provided automated CI/CD solutions for Mobile apps developing and supporting mobile pipelines. I also provided development support for Security issues and vulnerabilities following OWASP Secure Coding Practices and tools.

Up And Running Software & ObEN, Inc, Remote — *Software Engineer*

APRIL 2018 - APRIL 2020

Lead Software Engineer, with a strong background in Java and Kotlin technologies, I provided solutions for Mobile and Cloud platforms with applications related to AI and Blockchain. I led a distributed team across 3 continents and coordinated CI/CD for all platforms. I also provided Internationalization support for English, Spanish, Korean, Chinese and Japanese languages.

Syntec-IT, Remote — *Mobile Software Engineer*

JUNE 2017 - JUNE 2019

Lead Android Developer, I provided Android solutions for existing PHP based webapps with i18n support for Dutch and English. I developed a set of apps with Kotlin for Android, and provided CI/CD pipelines for all the apps.

AAJ Technologies, Rosario/Remote — *Mobile Software Engineer*

APRIL 2015 - SEPTEMBER 2018

Lead Xamarin and Java Developer, I provided comprehensive Web, Mobile and IoT solutions for several clients in the Healthcare, Animal Food, Equity, Life savings and Appraisal industries. I developed Xamarin applications, Android and iOS native apps, and .NET Core and Java microservices.

Globant, Rosario — *Senior Java Developer*

NOVEMBER 2013 - APRIL 2015

Lead Java Developer, I provided comprehensive web applications and microservices for Sears HC.

Neoris & Velocity Partners, Rosario — *Java Developer*

MAY 2009 - NOVEMBER 2013

Android and Java Developer, I provided comprehensive Android and Web

applications and microservices for several clients in the IT, and Apparel/Clothing Retail industries.

EDUCATION

Universidad Nacional de Rosario, Rosario — *Embedded Systems Designer*

MARCH 2016 - MARCH 2018

Specialization in ARM and Embedded board software development using C/C++, VHDL and Assembly languages.

University of Vanderbilt & Maryland, Remote — *Mobile Cloud Computing with Android Specialization*

DECEMBER 2015

Specialization by Universities of Vanderbilt and Maryland in Android and Java using Spring microservices to provide PaaS support to Android applications.

Sun Microsystems (now Oracle), Santiago de Compostela — *Sun Certified Java Developer 5 (SCJP)*

DECEMBER 2008

Certification by Sun Microsystems in Java SE 5 technologies.

Universidad de Coruña, Coruña, Spain — *Ingeniería en Informática*

SEPTEMBER 2004 - JUNE 2008

IES Pontepedriña, Santiago de Compostela, Spain — *Bachillerato en Ciencias*

SEPTEMBER 2002 - JUNE 2004

PROJECTS

USCG, IHS and VA Careflows — Patient facing application for telehealth consultations

Mobile application for having WebRTC video calls between patients and physicians integrating BLE medical devices with a Flutter application. The app was able to display real time measurements during Telehealth consultations. Using Test Driven Development methodologies and embracing the Functional Programming paradigm techniques, I unit tested each supported medical device interface with the application to make sure each function had the expected inputs and outputs. I also developed custom data types with different word-lengths like short integers and specific floating point types for Dart based on Bluetooth SIG specs.

Medical Devices used:

- Eko DUO Stethoscopes from Eko Health
- A&D Weight Scales and Blood Pressure Monitors
- Nonin 3230 Oximeter
- ForaCare IR20 Thermometer

Temenos Engage — Multi-Tenant *Banking Software and Mobile Pipeline*

Engage is a multi-tenant software ecosystem for banks to provide Banking support and Financial assistance to investors and clients. I developed and supported Engage's mobile pipelines using mainly Fastlane, Gradle and Bash scripts and supported legacy nodeJS scripts. I provided in-depth analysis and support for security vulnerabilities within Engage's Mobile app and Microservices. I was also responsible for supporting and keeping updated their Engage's push notifications infrastructure, for which I developed a custom API to update Tenant certificates for signing and pushing messages. Engage-Native technologies included ReactNative, Java, Kotlin, and Swift packages.

PAI Speech — *TTS and Voice Conversion Microservices*

PAI Speech covered all the Speech services for PAI Studio and PAI Platform and was one of ObEN's core services for targeting ObEN's TTS and voice conversion workers. Java Technologies Involved are Dagger 2, Jetty, Netty, RxJava, Reactor Core, Amazon S3 and SQS, Redis, JUnit and JaCoCo.

PAI Studio & PAI Platform — *Customized avatar content generation and management*

<https://oben.me/pai-studio-press-release/>

PAI Studio is ObEN's turn-key solution for creating AI avatar-driven digital content. It features a suite of tools that allows users to build, customize, and animate their PAIs quickly and easily. Java Technologies Involved are Dagger 2, OkHttp, Retrofit, Jersey, JOOQ, MySQL, Jetty, Netty, RxJava, Amazon S3, JUnit and JaCoCo.

PAIYO— *Customized avatar content generation and management for Mobile*

<https://www.paiyo.com>

PAIYO is a new content platform that lets you discover and share the latest content – delivered by AI personalities. Android application involved developing a custom native plugin written in Kotlin for operating the camera and sending the data to the main Unity frontend. Application provided via CI/CD and deployed to Google Play.

PAI Up— *Digital Wallet for managing PAI Coin*

<https://paiup.com>

PAI Up is a Digital Wallet for managing PAI Coin and BTC. Android application technologies include Kotlin and Android NDK (JNI) submodules, Leak Canary, OkHttp, Retrofit, Dagger 2, JSR-310 backport, and Glide, Firebase Notifications. Application provided via CI/CD and deployed to Google Play.

Syntec IT apps — Mobile DevOps

<https://play.google.com/store/apps/developer?id=Syntec-IT>

Syntec-IT apps have a wide variety of apps for covering all the company's existing webapps. Android application technologies include Kotlin and Javascript Interfaces, Leak Canary, OkHttp, Retrofit, Dagger 2, JSR-310 backport, and Glide. Application provided via CI/CD and deployed to Google Play

GroundWorks & GW Sketch — Accurate Group's Appraisal

<https://play.google.com/store/apps/details?id=com.accurategroup.groundwork>

<https://play.google.com/store/apps/details?id=com.aaitech.accurategroup.rapidsketch>

Application made for appraisal inspectors, with a companion app for doing floor sketches. Android application technologies include Kotlin and Javascript Interfaces, Leak Canary, OkHttp, Retrofit, Dagger 2, JSR-310 backport, and Glide. Also provided a Xamarin Forms application to provide a cross platform solution for managing inspection forms. Applications provided via CI/CD and deployed to Google Play, and Apple Store.

Equo — Runzheimer Equo

<https://play.google.com/store/apps/details?id=com.runzheimer.equos>

Application for capturing your business mileage and create an IRS compliant mileage log. Android application technologies include backported Java libraries to Xamarin, Leak Canary, and Xamarin Android, iOS and Forms. Applications provided via CI/CD and deployed to Google Play, and Apple Store.

BLE Serial Console — Bluetooth Low Energy Console

<https://play.google.com/store/apps/details?id=org.pampanet.mobile.serialconsole>

It's a text console for controlling Bluetooth LE Arduino Modules from an Android phone. This app has more than 5000 installs and active users. Technologies involved are Kotlin language SDK, Dagger 2 submodules,

Realm and Firebase. Application provided via CI/CD and deployed to Google Play.

RECOMMENDATIONS

Patrick Gerzanics, Software Development Architect — *Up And Running Software*

JANUARY 2019

I've been very impressed with Pablo during the time he has worked for me. He has strong experience in both Java server as well as Android development and distinguished himself well on a large team (~50 members). I particularly like his positive attitude and willingness to go above and beyond to meet client expectations. In my experience it is these attributes that separate the good developers from the great ones.

Nikhil Jain, CEO — *ObEN, Inc*

MARCH 2020

Pablo did a terrific job as mobile developer for our AI company. He is a very talented developer, extremely ethical and a true professional with his work and projects.

Eman Hashem Safadi, COO — *ObEN, Inc*

MARCH 2020

Pablo was the backend team lead for one of our core AI products. He was an excellent developer, very responsible and responsive, and a great team player. He worked efficiently and productively with an engineering team across three continents. He has a great work ethic, and interpersonal and communication skills. I would love to have him on future projects and highly recommend him.

Justin Standard, Lead Backend Engineer — *ObEN, Inc*

MARCH 2020

At ObEN, Pablo was a vital member of the backend team. He's an expert in the Java ecosystem, and has particularly strong proficiency with newer developments such as JavaRX, project Reactor, and modern frameworks. Additionally he's extremely versatile with skills ranging from Android development, web/full stack work, websockets, REST APIs, and database design. Together we built from scratch and deployed two important REST microservices using Jersey, Dagger, Jooq, MySQL, which were the basis of ObEN's SaaS platform, and for which Pablo was primarily responsible. Bottom line. Pablo is quality. Your team would be lucky to have him..

Harsha Chetwani, Senior Management — *Temenos*

SEPTEMBER 2020

It's not just Pablo's technical skills that are impressive, his go-getter attitude and quest to learn more are super valuable. He was certainly a *Mr. Fix it* for all complex AWS issues we encountered during Engage deployments. Not only will he bring great backend tech stack skills but he also quickly will become an asset and help the team members in any way he can, who often relied on him to get the job done. A very unique talent with a mix of a phenomenal team player and an expert in his area of work, that is highly recommended for any business to achieve their goals.

Niladri Bora, Director of Mobile Engineering— *Eko Health, Inc*

AUGUST 2023

Pablo is an exemplary developer. You can toss any problem at him, and he will run with it. He is a polyglot when it comes to programming languages and platforms. At Eko, he worked across all mobile development platforms. He is a quick learner and a joy to work with. Everyone on my team loved working with him. He will be an asset to any team that he decides to join.

Tyler Crouch, Co-Founder— *Eko Health, Inc*

DECEMBER 2023

It is always a pleasure to work with Pablo. He is a very talented mobile engineer who has a passion for building high-quality products. I rely on him for architecture insights and can trust he is current on new best practices. His uncommon interest in going beyond a spec to deliver scalable solutions is very appreciated. I look forward to our continued partnership as we build out iOS and Android codebases for clients.