Adrian Fível Rangel

Android Developer / IoT Engineer
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SUMMARY

Overall **6+ years** of experience developing robust, scalable & high-quality solutions to solve social needs, implementing **IoT** projects in Medical IoT & IoT Home Automatization industries, using **Android** and **Full Stack Technologies** with **Agile Methodologies**, and analyzing from hardware design to software implementation. I'm a Mexican creative engineer interested in promoting social development through technological solutions and cultural projects, applying creative and high-quality processes and deploying effective results. Speaker, creative and workshop facilitator.

PROFESSIONAL EXPERIENCE

Software Engineer | ITJ & Dexcom: **April 2021 – December 2022**

- Built, developed, maintenance & consolidated Dexcom G6 Android App for 150k users in the USA and overall 55+ countries around the world, compatible with the Continuous Glucose Monitor Dexcom System (CGM) using **Java** and **Kotlin** in Android Studio.
- Improved Dexcom G6 app wireless connection quality with Medical IoT devices optimizing the **Android Bluetooth Low Energy Libraries** for USA and around the world users.
- Empowered Dexcom G6 users to take control of diabetes by developing new features & promoting Dexcom G6 Smartwatch App for Wear OS, implementing **Java for Android**.
- Collaborated with the team in the software development life cycle, implementing UI/UX, core, connectivity, in-app updates and security features, applying top practices to achieve goals to bring value to the users.

Software Developer Internship | Nearsoft / Encora: **August 2020 – January 2021**

- Automatized manage and track of art pieces for Art Gallery developing a Web Platform using **React, Java Spring,** and **PHP**.
- Implemented data structures, software architecture & agile methodologies to solve programming problems efficiently, applying agile scrum methodologies to solve open source projects issues.

IoT Engineer | Synergy: **June 2018 – Aug 2020**

- Digitalized & optimized the urban gardens monitoring process & the irrigation system for an agricultural company by developing and designing an IoT automated monitoring & irrigation system using **Python** & **Redis.**
- Collaborated with Internet of Things teams to evaluate and solve efficiently and scalable user requirements, considering costs, benefits, and most effective technologies to implement.
- Researched communication technologies to reduce the IoT peripherical devices consumption and implemented specific IoT communication protocols using **Lora** & **Sigfox**.
- Researched and Deployed **Bluetooth Low Energy** communications between peripherical devices and unit control devices, using **Python**.
- Created and deployed user platforms to interact & analyze real-time data from IoT devices using **Java** for **Android**, **Objective C, HTML, CSS, JavaScript & PHP.**

Android Developer Jr. | Edison Effect: **February 2017 – March 2018**

- Developed and Maintained Android applications to manage home automation smart lights system, to test Level Gas IoT devices in the product & to Connect, Manage and receive data from Level Gas IoT devices using **Java** for **Android, Bluetooth LE tools & REST Services.**
- Collaborated with Hardware & design teams to design, build and implement IoT hardware solutions.

TECH SKILLS

Android Technologies: Android SDK, JUnit, Material Design, Bluetooth LE, Rest Services, Jetpack, Gradle, XML. Wear OS, Espresso, Kotlin
Complementarians: PHP, C++, Python, Html, CSS, GitHub & GitHub Actions, JSON, Sigfox, Atom, Jira, JavaScript, Appium.

EDUCATION

Bachelor of Telecommunications Engineer   **April 2019**
Autonomous University of San Luis Potosí

Thesis: **IoT Central Monitoring and Communication Unit for irrigation systems with application in Urban Gardens.**
Develop and Implementation of a Central Unit to manage, analyze data and control Bluetooth IoT monitoring devices in crops grown, and automatize the irrigation control.

LEADERSHIP EXPERIENCE

Sembrarte Mx Project | ART ONG CEO | México
● Managed & planned more than 60 workshops, shows & art events for 140 boys and girls from 11 foster care in to develop life skills, collaborating with overall 30 sponsors, universities, and government during 4 years.
● Developed soft skills in a 40 volunteers team mentoring art activities & events for 140 kids for 4 years.

The Butterfly Circus Company | Acting and Theater Direction | México
Theater Company for vulnerable population and young Audiences.
● Conducted theatre workshops and plays for overall 40 actors and actresses.
● Overseed and orchestrated the mounting of 6 theatre productions presented for more than 1400 persons in San Luis Potosí, including 11 foster cares repeatedly.

Higashi Shirakawa Village Camp | Volunteer | Gifu**,** Japan
• Worked with local children, students, and old people in a cultural exchange in a Japanese rural Town.
• Organized and deployed the local summer festival collaborating with a multicultural team.

The Mictlan Journey The videogame | Producer & Level Designer | México
The Mictlan Journey, is a mobile videogame for cultural preservation about Mexican Traditions of death.
● Increased the interest in players designing challenging experiences and receiving feedback from users.
● Connected the game to audience collaborating with players networks and implementing cultural projects to make the videogame a significative experience for school students and Nahuatl speakers in México.

BARDO, false Chronicle of a handful of Truths. Movie by Alejandro Gonzales Iñárritu | Extra Actor
• Communicated effectively a discourse, playing a specific role for an audience in Netflix and Cinemas.

CERTIFICATIONS & AWARDS

UVM Award for Social Development | UVM & NATIONAL ASSOCIATION OF UNIVERSITIES AND HIGHER EDUCATION INSTITUTIONS (ANIUES) / 2016.

Scrum Foundations certificate | SCRUM ALLIANCE, INC.

CCNA Switching & Routing: introduction to networks | CISCO SYSTEMS

Cultural Management Diplomat | CONACULTA & SECRETARY OF PUBLIC EDUCATION IN MÉXICO