

Isaac Lacort Magán

Software Developer



Personal Info

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LinkedIn

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Soft Skills

Abstract Thinking

Attention to Detail

Teamwork

Creativity

Software

Linux  good

Eclipse  good

Android Studio  familiar

Spring Boot  basic

Git  very good

Docker  familiar

MySQL  familiar

SQLite  basic

Programming

Java  very good

Python  familiar

C  familiar

Haskell  basic

Languages

Spanish  native

English  intermediate

Experience

Android App Developer

2019 **Colaboration Internship** (3 months)

Universidad Politecnica de Madrid (UPM)

DynApp development, an Android app which purpose is to measure the vibrations to which structures such as beams or bridges are subjected to in order to analyze their stability. To do so, the app stores and analyzes the data collected by the smartphone's accelerometer placed over one of these structures. The purpose of the analysis is to calculate the Discrete Fourier Transform (DFT), which can give us information about whether a structure has been damaged. My job consisted on the development of the entire app and the contribution to the deployment of numerous analysis algorithms, such as an interpolation algorithm to preprocess the data before calculating the DFT.

Software Developer

2019 **Summer Internship GMV** (2 months)

Project P3-NEO-XII. Development of the file subsystem of satellite images for the installation in a telescope in an extreme environment. My job consisted on separating the program in different modules, one for each tool that it used. The tools the program used were Apache Tomcat, PostgreSQL and RabbitMQ. I created a container for each module and connected the Tomcat's container to the others.

Education

2016- **Degree in Mathematics and Computer Science,**
now **Universidad Politécnica de Madrid**

92.5% ECTS passed.

21.25% ECTS passed cum laude.

GPA: 8.34/10

2018 **Workshop SAMSUNG-UPM (100 hours):**
Introduction to Android App Development

We were introduced to basic app development and Android Studio Environment. I learnt about the Android app lifecycle, app elements such as activities, manifest and gradle scripts; services, SQLite and basic material design elements like listview, recycler view, menu and toolbar among others.

2018 **Workshop SAMSUNG-UPM (75 hours):**
Android's Advanced Development

We implemented applications that used web services. To do so we were introduced to the libraries OkHttp, Retrofit, Volley and Picasso.

Interests

Computational Topology applied to clustering techniques.

Functional Programming

Software Development

Formal methods and critical systems