

# Isaac Lacort Magán

Junior Software Developer

Undergraduate student of Mathematics and Computer Science with five months of professional experience looking for a job as a Software Developer.

## Personal Info

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## Soft Skills

Abstract Thinking

Attention to Detail

Teamwork

## Software

Linux	<div><div></div><div></div><div></div><div></div><div></div></div> <div>good</div>
Eclipse	<div><div></div><div></div><div></div><div></div><div></div></div> <div>good</div>
Android Studio	<div><div></div><div></div><div></div><div></div><div></div></div> <div>familiar</div>
Spring Boot	<div><div></div><div></div><div></div><div></div><div></div></div> <div>basic</div>
Git	<div><div></div><div></div><div></div><div></div><div></div></div> <div>very good</div>
Docker	<div><div></div><div></div><div></div><div></div><div></div></div> <div>familiar</div>
MySQL	<div><div></div><div></div><div></div><div></div><div></div></div> <div>familiar</div>
SQLite	<div><div></div><div></div><div></div><div></div><div></div></div> <div>basic</div>

## Programming

Java	<div><div></div><div></div><div></div><div></div><div></div></div> <div>very good</div>
Python	<div><div></div><div></div><div></div><div></div><div></div></div> <div>familiar</div>
C	<div><div></div><div></div><div></div><div></div><div></div></div> <div>familiar</div>
Haskell	<div><div></div><div></div><div></div><div></div><div></div></div> <div>basic</div>

## Languages

Spanish	<div><div></div><div></div><div></div><div></div><div></div></div> <div>native</div>
English	<div><div></div><div></div><div></div><div></div><div></div></div> <div>intermediate</div>

## 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 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 or one that calculates the root mean square acceleration ( $G_{RMS}$ ).

### 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 archiving subsystem in different modules, one for the program and three for the tools that it used, Apache Tomcat, PostgreSQL and RabbitMQ. I created a container for each module and connected the program's container with each container.

## 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