

# JUAN LEON

SOFTWARE ENGINEER

## PERSONAL INFORMATION

-  juanseleon1@hotmail.com
-  (+57) 320 4094111
-  [www.linkedin.com/in/juanseleon/](https://www.linkedin.com/in/juanseleon/)
-  [github.com/juanseleon1](https://github.com/juanseleon1)
-  Bogotá, Colombia

## EDUCATION

- Master's in Systems Engineering @ Pontifical Xavierian University** | Jan 2022 - Present
- Master's in Artificial Intelligence @ Pontifical Xavierian University** | Jan 2022 - Present
- Systems Engineering @ Pontifical Xavierian University** | Jun 2016 - Jun 2021

## PROGRAMMING LANGUAGES

**Advanced:** Java [4 years], C++ [3 years], Python [2 years]  
**Intermediate:** SQL [2 years], Shell Scripting (Bash) [1 year], TypeScript [1 year], JavaScript [1 year], C [1 year], R [1 year]  
**Basic:** PHP [6 months]

## TECHNOLOGIES

### Development

Spring, Docker, Angular, Android SDK, Git, Linux, FastAPI, Arduino

### Databases

PostgreSQL, Oracle

### Cloud Technologies

AWS, Oracle Cloud Infrastructure

## LANGUAGES

**Spanish:** Native

**English:** B2 (TOEFL: 107/120)

**French:** B1

## AWARDS AND HONORS

**3rd Place @ DragonJar Security Conference CTF | 2018**  
3rd Place out of 35 participants at DragonJar capture the flag competition.

**Jose Gabriel Maldonado Award @ Pontifical Xavierian University | 2021**

Award given to a student with excellent academic achievements and outstanding participation in social activities involving the community inside the university.

## PROFILE

Dedicated and performance-driven software engineer with 2 years of experience in backend and mobile software design and development using Java, Python and C++. Solid reputation as a quick learner and a patient mentor, who's passionate about new challenges involving software development best practices, back-end technologies, artificial intelligence and robotics. Able to effectively self-manage during independent projects, as well as to collaborate as part of a productive team.

## EXPERIENCE

### Robotics Research Assistant

Pontifical Xavierian University | Feb 2022 - Sep 2022

- Designed and implemented a web-based Scratch-like block tool, named STblocks, for **Arduino code generation**.
- The project was developed using **JavaScript**, **HTML**, **CSS** for the front-end and **Spring (Java 8)** and **Bottle (Python 3.10)** for the back-end.
- Implemented a **Java Library** used to create and execute **Petri Nets** to handle concurrency and synchronization between multiple robot agents.

### Associate Consultant

Oracle | Dic 2021 - Mar 2022

- Solved data migration requirements by leading the design process of a data pipeline using **Java and C macros**.
- Designed, implemented and tested billing and invoicing requirements for the client business processes.
- Trained two interns** in basic programming skills and Oracle products fundamentals.

### Freelance Software Developer

Pontifical Xavierian University | Dic 2021 - Feb 2022

- Created a **Java-based Android application (SDK 29)**, named QuycApp to handle multiple robotic actors according to the user desires.
- Designed the application following the **MVVM pattern**.
- Realized multiple user acceptance tests with users (children between 10 to 17 years).

### Intern

Oracle | Dic 2020 - Dic 2021

- Implemented **REST service** customization using **Jax-rs**.
- Designed, implemented and tested **Java integration interfaces** between the client information systems and Oracle products.
- Reviewed code, ran automated memory testing and fixed identified bugs in at least 3 business process related macros.

## PROJECTS

### [Asset Management Dashboard](#)

EPM - Correlation One | Apr 2021 - Sep 2021

- Developed a **functional data analytics dashboard** for asset management and **work order text mining**.
- Designed and trained a NLP model using **TensorFlow** and **Keras (80% accuracy)**.
- Built the backend in **Python 3.9** using **FastAPI** framework for REST services and SQLAlchemy to handle a **PostgreSQL** database.
- Deployed in a **Docker** container using an **AWS EC2** instance.
- The project was adopted by EPM as part of their current data analytics processes.