L u i s a   S a n c h e z   A v i v a r

luisasanavi@gmail.com   ●   Rue du Vieux-Billard 4, Genève - 1205, Switzerland   ●   +34 695 616116
Spanish, English, French*(limited working proficiency)*

Software Engineer

SKILLS

Strong Java programming skills and familiar with Python.

Experienced in back-end development using Microservices architecture.

Experience working with agile methodologies.

EXPERIENCE

Software Engineer, VER-SE*, Switzerland since November 2020*

- ◦ Analyze, define and implement software architecture for a health tracking system in collaboration with WHO.

Machine Learning Intern, Logitech*, Switzerland 2019 - 2020*

- ◦ Developed Eye Fatigue prevention system based on a blink detection problem that performs a binary classification.
- ◦ Worked and studied the improvement of an eye gaze algorithm for a gaze tracking system.

Software Engineer, CERN*, Switzerland 2016- 2019*

- ◦ Development and maintenance of Real Time software that allows position measurement of the bunched beam.
- ◦ Upgraded the acquisition system for position monitoring devices enhancing the precision by 0.1 mm RMS.
- ◦ Development, design and management of JavaFX/Swing applications and components.

Software Engineer, Fidesol/Open Source Foundation R&D, *Spain 2014 - 2016*

Software Engineer, AXESOR (external from Fidesol)*, 2015 - 2016*

- ◦ Developed a specific connector for an ERP, that enables the extraction and transfer data into the Axesor Platform.
- ◦ Developed a web application component that enables tracking the activity (commercial details) and relationships of any company.

Junior Software Developer, Fidesol, *2014 - 2016*

- ◦ Developed and designed a web application for centralized user profile management and the corresponding REST API middleware for the previous application.
- ◦ Lead the migration from Hibernate relational database to MongoDB.
- ◦ Developed the integration between components of a hotel booking service.

EDUCATION

- ◦ MSc in Artificial Intelligence*, University of La Rioja, 2021.*
- ◦ BSc in Computer Engineering, *University of Granada, Spain, 2014.*

INTERESTS

- ◦ Presented all the software achievements for the LEIR accelerator at CERN during the Beam Instrumentation annual workshop for around 100 attendants.
- ◦ Developed machine learning system prototypes as facial emotion recognition based on computer vision, or emotion classification in a foreign language from speech.
- ◦ Developed a system that performs object tracking and image segmentation over one finger to allow it to use it as a mouse pointer (participation in *HackaHealth event 2020*).