Luisa Sanchez Avivar

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.
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> **Junior Software Developer**, Fidesol, *2014 - 2016*
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> - 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,* GPA: 8.9/10 [Thesis selected for publication](#).
- **BSc in Computer Engineering**, *University of Granada, Spain, 2014.* GPA: 7.1/10

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*).