



CARLOS ANDRES MONSERRAT ROJAS ROJAS

SOFTWARE ENGINEER

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LANGUAGES

- Spanish (Native speaker)
- English (Advance)

NATIONALITY

Bolivia - Chile

CURRENT LOCATION:

Innopolis, Russia, 420500

GITHUB:

<https://github.com/carlosmonserrat>

ABOUT ME

I'm a software engineer with more than 10 years of experience in backend and frontend development. I am used to working in teams using agile practices.

EDUCATION

2008 - 2012

Bachelor in Systems engineering

Universidad Nuestra Señora de La Paz
Bolivia (La Paz)

2013 - 2016

Technical degree in Graphic design

ATENEA
Bolivia (La Paz)

2003 - 2006

Technical degree in English Language

Centro Boliviano Americano
Bolivia (La Paz)

2017-2018

Master in Software engineering

Innopolis University
Innopolis (Russia)

SKILLS

Linux, Bash, Scala, Kafka, Docker, Kubernetes, Akka, Akka HTTP, React, Javascript, HTML, CSS, Postgres, SQL, MYSQL...

WORK EXPERIENCE

2019-2023

Patient Assistant

Portavita-Netherlands

In the Netherlands one of the aims of digitalization in healthcare is that everyone should be able to view, manage and share their data online. The patient assistant services and application is a project with continuous updates and new features that started in 2018, this is a service for patients following an anticoagulation treatment in healthcare institutions from the Netherlands. This service is currently processing thousands of records for patients a month.

As a senior developer I was in charge of leading in software design decisions and implementations in communication with the team developers and the product manager. The patient assistant services were divided into three micro services in charge of processing data, enriching data and serving the data in a rest service following the FHIR standards.

Tech stack:

Linux, GIT, Bash, Scala, Scala testing libraries, Akka, Akka HTTP, Slick, Postgres, Kafka, Kafka Streams, Javascript, React, React testing libraries.

WORK EXPERIENCE

2020 - 2023

DVZA Services

Portavita (Netherlands)

Tech stack:

Linux, GIT, Bash, Scala, Scala testing libraries, Akka, Akka HTTP, Slick, Postgres, Kafka, Kafka Streams, Javascript, Polymer, React, React testing

The DVZA platform (data service provider in the care providers domain) is primarily used by healthcare institutions. The DVZA made by Portavita is currently processing millions of records of multiple patients following Medmij and FHIR standards

I was in charge of implementing within a team of developers multiple features requested by the healthcare institutions in charge of providing to the data to be processed, the DVZA services were divided in some micro services in charge of validating data, generating metrics, processing data, enriching data and serving the data in multiple rest services following the FHIR standards

2012 - 2013

E-CONSTITUCIONAL (Bachelor degree proj)

Centro de estudios constitucionales (Bolivia)

This was my first project when finishing my education at university. In collaboration with an interdisciplinary group in political sciences and constitutional law at the head of the former President of Bolivia, Dr. Eduardo Rodriguez Velze, I got the chance to support the research and publication of the first free online web encyclopedia of the Political Constitution of the Plurinational State of Bolivia, econstitucional.com

The project required the implementation of a simple interface for the administrators to publish data and a friendly interface for the users to read and search for specific topics in the constitution of Bolivia.

The E-constitucional project was a MVC application with a module for publication, a module for searching for specific data, a module to introduce the complete constitution by chapters and a module to visualize a single publication.

Tech stack:

Visual Studio, Visual Basic, C#, SQL Server 2012, HTML, CSS, Javascript

WORK EXPERIENCE

2018 - 2019

INTERNSHIP (master Degree)

Acronis (Russia)

As a part of the MSIT program at Innopolis University, students got the chance to work in real projects for the industry, Acronis project was presented for research and implementation, a full description and document was finally published as an academic document called "Application Aware Disaster Recovery" the same was presented with great acceptance in Moscow offices within the chief officer Nikolay Grebennikov .

Responsibilities

- Take data samples with IDA(Interactive Disassembler) in order to understand and capture the required data from the Windows Kernel Architecture.
- Provide a document with a probe of concept for an utility capable of restoring data based on the research "Application Aware Disaster Recovery".

2016 - 2017

SYSTEMS ANALYST

COFAR Laboratories (Bolivia)

I was introduced to some of the systems being used in COFAR, a big part of the required modules to develop were depending on a complex monolithic system.

Responsibilities

- Development and analysis of data
- Development in backend working frameworks for PHP in Laravel and Symfony, for JAVA in Server Faces and Spring

2014 - 2016

Teacher

ATENEA (Bolivia)

The graphic design career consists of five modules of study in a total period of 3 years to obtain the higher technical degree in graphic design and visual communication, The third Module provides to the student a huge background and understanding of Web design Patterns and implementations to work in cooperation with developers

Responsibilities

- Web development instructor in UI, UX
- Web development instructor in HTML, CSS and Javascript
- Homework, tasks and academic material analysis
- Grading and test preparation