# SERGIO RODRIGO CÁRDENAS RIVERA

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## PROFILE

I am a Systems and Informatics Engineer and a dedicated software developer with a strong background in programming, databases, web, and mobile development. I have recently begun exploring data science, machine learning, and deep learning, further expanding my technical expertise. I bring proactivity, communication, and adaptability to development teams, seamlessly adjusting to new technologies, work dynamics, and development methodologies. With a combination of technical skills, creativity, and problem-solving abilities, I am prepared to make a positive impact on any team. My experience with modern programming languages, frameworks, and tools enables me to contribute significantly to dynamic projects. Eager to apply my skills and collaborative mindset, I am committed to continuous growth in the technology industry.

## EDUCATION

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|---|---|
| **Systems Engineering** \| *Bachelor Degree Systems Engineering* | 2011 – 2018 |
| San Simón University | Cochabamba, BO |
| **Informatics Engineering** \| *Bachelor Degree Informatic Engineering* | 2018 – 2021 |
| San Simón University | Cochabamba, BO |
| **Postgrade in University Education Based on Competencies** | September 2021 |
| San Simón University | Cochabamba, BO |
| **Master in Data Science & Smart Technologies** | Currently |
| Oruro's Technical University | Remote |

## TECHNICAL SKILLS

**Programming Languages:**

- Proficient in Python (+3 years)
- Java (+2 years)
- Javascript (+3 years) and Typescript (+1 year)
- Visual Basic For Applications (+3 years)

**Web Development**: HTML, CSS, React, Node.js (+2 years)
**Back-end Development**: Experience in Flask, Express.js (+2 years)
**Database Management**: PostgreSQL, MySQL, MongoDB, SqlServer (+2 years)
**DevOps & Tools:** Knowledgeable in Docker, GIT (+ 2 years)
**Mobile Development**: Android with Java and Kotlin (+1 year)

## WORKING EXPERIENCE

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|---|---|
| **Data Engineer at Alicorp.** | Aug. 2024 – Nov. 2024 |

*Remote Location*

Alicorp is a Food Industry with a products variety with a very huge data about sales and clients, offering the best deals with their customers.

- Use of unsupervised machine learning algorithms.
- Python and Machine learning libs like scikit-learn.
- Data visualization with matplotlib.
- Databases management and queries with SqlServer, PostgreSql.

**Software Engineer at Oktana Corporation**  Dec. 2021 – Feb. 2024

*Remote Location*

Oktana is a Software development agency that helps companies innovate with
 Salesforce technologies.

- Web Applications development with Python using Flask, FastAPI, React, SqlAlchemy, Docker, and Rasa Framework.
- NLP (Natural Language Processing) application to build Chatbots for WhatsApp with MetaAPI.
- Front-end projects Typescript, Tailwind CSS, AWS S3 Bucketeer, Heroku, Prisma, PostgreSQL. and Next.js framework
- Salesforce demos with Aura and Lightning Web Components.

## PERSONAL PROJECTS

**Media Box Player**  2018

Mobile application to stream multimedia files for Dropbox storage, developed in Java for Android platform.

- Project presented to get Systems Engineering Degree
- Model-View-Presenter pattern used to design Software Architecture.
- ExoPlayer Google library was used to stream data.
- Dropbox API used to connect to the account

**Video Surveillance Smart System**  2021

System to home video surveillance to detect fire, smoke, and human silhouette.

- Project presented to get Informatics Engineering Degree
- Camera module to capture video frames and send them to the server.
- Server receives the frames and seeks fire, smoke, and human silhouette in all frames.
- Server sends an alert through email and WhatsApp messages with a caption.
- The client can watch live stream video from the detector camera.
- Pre-trained neuronal network to identify human silhouette.

## CERTIFICATIONS AND COURSES

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|---|---|
| **Power BI - Basic and Intermediate level** | Jun 2023 |
| San Simon University – Science & Technology College | C.A.E. Project |
| **Crash Course in Python** | Jan 2023 |
| Certificate's link | Coursera |
| **Salesforce Developer 1** | Mar 2022 |
| Certificate's link | Trailhead |
| **Trailhead Salesforce - Ranger Level** | Apr 2022 |
| Credential's link | Trailhead |
| **Python (Basic)** | Jan 2022 |
| Certificate's link | Hacker Rank |
| **Java (Basic)** | Julio 2020 |
| Certificate's link | Hacker Rank |
| **Problem Solving Certificate** | Julio 2020 |
| Certificate's link | Hacker Rank |

## TEACHING EXPERIENCE

**Subject "Computación 1" Professor**                                Summer 2024
San Simon University – Science & Technology College                  Cochabamba, BO

**Subject "Computación 1" Professor**                                Winter 2023
San Simon University – Science & Technology College                  Cochabamba, BO

**Subject "Computación 1" Teacher Assistant**                        2014 – 2017
San Simon University – Science & Technology College                  Cochabamba, BO

**Subject "Introducción a la Programación" Teacher Assistant**       2015
San Simon University – Science & Technology College                  Cochabamba, BO

**Subject "Computación 1" Teacher Assistant on Winter and Summer Courses**    2015 - 2018
San Simon University – Science & Technology College                  Cochabamba, BO

**Instructor - Visual Basic For Applications in Excel**              2014 – 2018
San Simon University – Science & Technology College                  Cochabamba, BO

**Instructor - Microsoft Office**                                    December 2014
UMSS & Septima División del Ejercito Boliviano                        Cochabamba, BO

## CONFERENCES AND PRESENTATIONS ATTENTED

**Java Programming**                                                 March 2011
TEKHNE S.R.L

**First Look Clinic - What's new in Microsoft Exchange Server 2010**    May 2012
C.O.G.N.O.S.

**Ley 164 , General de Telecomunicaciones, TICs, Certificacion y Firma digital**    September 2012
San Simón University

**Los pilares de la generacion de contenidos basados en TICs en Bolivia**    September 2012
San Simón University

**Alcances y perspectivas del satelite de comunicaciones Tupak Katari**    September 2012
San Simón University

**2das Jornadas de Seguridad Informatica**                           October 2012
Scientific Society of Systems & Informatics – San Simón University

**3ras Jornadas de Seguridad Informatica**                           September 2013
San Simón University