



SERGIO RODRIGO CÁRDENAS RIVERA

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PROFILE

I am a software engineer with a strong background in full-stack web development, mobile, and data science. I have expanded my technical skills in data engineering, machine learning, and deep learning through my continuous training and a strong commitment to lifelong learning. I bring proactivity, clear communication, and adaptability to development teams, allowing me to integrate efficiently with new technologies, workflows, and development methodologies. By combining solid technical skills, creativity, and strong problem-solving abilities, I am prepared to deliver meaningful and measurable impact in complex, high-value projects. My experience with modern technologies, frameworks, programming languages, and development tools enables me to contribute effectively to scalable, dynamic, and production-level solutions. Motivated by collaboration and technical excellence, I am committed to continuous growth and to delivering high-quality results within the technology industry.

EDUCATION

Systems Engineering <i>Bachelor Degree Systems Engineering</i>	2011 – 2018
San Simón University	Cochabamba, BO
Informatics Engineering <i>Bachelor Degree Informatic Engineering</i>	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 - PROFICIENT

Languages: Python, Java, JavaScript, Typescript, Visual Basic For Applications.
Front-end: HTML, CSS, React.js, Vue.js, Next.js, Node.js
Back-end: Flask, FastAPI, Express.js, Nest.js
Databases: PostgreSQL, MySQL, Firebase storage, MongoDB, SqlServer
DevOps & Tools: Docker, Git
Mobile: Android with Java and Kotlin
Salesforce: Lightning Web Components, Aura Components, SOQL, SOSL, Apex.
Cloud (AWS): Amplify, Lambda, RDS, S3.

WORKING EXPERIENCE

Software Engineer - Tech Lead at SHEMA YISRAEL S.R.L. April 2025 – Currently
Cbba - Bolivia
 Limited liability company responsible for international software projects throughout Latin America, Israel, and Korea. As a team leader, I am responsible for implementing the agile methodology correctly, organizing the team, developing and reviewing the implementation of software features.

- Full stack web development with Next.js, Nest.js, PostgreSQL.
- Deployment in AWS services with S3, Amplify and RDS.
- Mobile Native Development with React Native.

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 — Android Developer — Java

2018

Android mobile application for cloud-based multimedia streaming.

- Designed and developed a native Android application using Java and Android SDK.
- Implemented Model-View-Presenter (MVP) architecture to improve separation of concerns and maintainability.
- Integrated Dropbox API for secure OAuth authentication and cloud file access.
- Implemented adaptive video streaming using ExoPlayer.
- Managed background threads and asynchronous data loading for optimized performance.
- Applied REST API communication and JSON parsing for remote data handling.
- Delivered as capstone project for Systems Engineering degree.

Video Surveillance Smart System — Computer Vision — AI

2021

AI-powered home surveillance system for real-time fire, smoke, and human detection.

- Designed and implemented a client-server architecture for distributed video processing.
- Developed camera module for real-time frame capture and HTTP-based transmission to backend server.
- Implemented server-side image processing pipeline for frame analysis.
- Integrated pre-trained neural network model for human silhouette detection using computer vision techniques.
- Implemented rule-based and AI-based fire and smoke detection algorithms.
- Built automated alert system using SMTP (email) and WhatsApp API integration for emergency notifications.
- Enabled real-time video streaming for remote monitoring.
- Deployed and tested full system workflow including model inference and alert triggers.
- Delivered as capstone project for Informatics Engineering degree.

CERTIFICATIONS AND COURSES

Role React FrontEnd Developer Certificate's link	Feb 2026 HackerRank
React Basic Certificate's link	Feb 2026 HackerRank
Power BI - Basic and Intermediate level San Simon University – Science & Technology College	Jun 2023 C.A.E. Project
Crash Course in Python Certificate's link	Jan 2023 Coursera
Salesforce Developer 1 Certificate's link	Mar 2022 Trailhead
Trailhead Salesforce - Ranger Level Credential's link	Apr 2022 Trailhead
Python (Basic) Certificate's link	Jan 2022 HackerRank
Java (Basic) Certificate's link	Julio 2020 HackerRank
Problem Solving Certificate Certificate's link	Julio 2020 HackerRank

TEACHING EXPERIENCE

Subject "Sistemas de Información 2" Professor San Simon University – Science & Technology College	Summer 2025 Cochabamba, BO
Subject "Computación 1" Professor San Simon University – Science & Technology College	Summer 2024 Cochabamba, BO
Subject "Computación 1" Professor San Simon University – Science & Technology College	Winter 2023 Cochabamba, BO
Subject "Computación 1" Teacher Assistant San Simon University – Science & Technology College	2014 – 2017 Cochabamba, BO
Subject "Introducción a la Programación" Teacher Assistant San Simon University – Science & Technology College	2015 Cochabamba, BO
Subject "Computación 1" Teacher Assistant on Winter and Summer Courses San Simon University – Science & Technology College	2015 - 2018 Cochabamba, BO
Instructor - Visual Basic For Applications in Excel San Simon University – Science & Technology College	2014 – 2018 Cochabamba, BO
Instructor - Microsoft Office UMSS & Septima División del Ejercito Boliviano	December 2014 Cochabamba, BO

CONFERENCES AND PRESENTATIONS ATTENDED

Mentor in Tech4Future Hackatoon 2026 San Simón University - Bolivian's Hub of IA - Cochabamba	Feb 2026
Mentor in Google Hackatoon - Builded with IA Catolica University - Santa Cruz	July 2025
Java Programming TEKHNE S.R.L	March 2011

First Look Clinic - What's new in Microsoft Exchange Server 2010 C.O.G.N.O.S.	May 2012
Ley 164 , General de Telecomunicaciones, TICs, Certificacion y Firma digital San Simón University	September 2012
Los pilares de la generacion de contenidos basados en TICs en Bolivia San Simón University	September 2012
Alcances y perspectivas del satelite de comunicaciones Tupak Katari San Simón University	September 2012
2das Jornadas de Seguridad Informatica Scientific Society of Systems & Informatics – San Simón University	October 2012
3ras Jornadas de Seguridad Informatica San Simón University	September 2013