

# Sergio Loza Villarreal

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## Skills

**Programming languages:** TypeScript · JavaScript/HTML/CSS · C# · Python · SQL · Elixir

**Frameworks and libraries:** React · Express · NestJS · Next.js · Node.js · .NET · Vitest · Playwright

**Tools:** Linux · Git · PostgreSQL · Docker · Github Actions · AWS · REST APIs · CI/CD

**Languages:** Spanish · English C1 (Full Professional Proficiency - TOEFL 105)

**Certificates & Courses:** AWS AI Practitioner · Huawei HCIA Cloud Service · Oracle OCI Foundations Architect · Elixir & OTP by PragmaticStudio

## Experience

<b>Fullstack Developer</b>	<b>PJSW</b>	Oct 2024 - Present
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- Developed a full-stack loan management system (**React MUI**, **Node.js**, **PostgreSQL**), featuring a custom double-entry financial engine with 90% test coverage (Vitest/Playwright).
- Built POS platform with **React** and **NestJS** backend, implementing a query syntax parser for advanced filters.
- Provisioned **AWS** infrastructure via **CDK** (EC2, S3, RDS, KMS) for production servers, using CloudWatch for monitoring.
- Optimized **NX Monorepo** pipelines in **GitHub Actions**, successfully reducing CI execution time by 20%.
- Implemented **OIDC/Keycloak** authentication across all company services to ensure enterprise-grade security.
- Integrated electronic invoicing to a legacy **.NET** school management system and developed a custom visual document editor (WYSIWYG) to automate the generation of regulatory forms for students.

<b>Fullstack Developer</b>	<b>Ing. Cinavar y Consultora</b>	Oct 2023 - Oct 2024
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- Developed a **React**, **SQLServer**, and **Express** REST APIs vehicle inspection system for YPFB (Bolivia's largest energy company), currently processing 150+ daily inspections across different fuel plants throughout Bolivia.
- Automated workflows using **AWS SES** to send Excel reports and alarms, eliminating manual data entry and reducing generation time from hours to seconds.
- Built **CI/CD** pipelines via **GitHub Actions** for automated deployments and **SQL Server** backups, ensuring zero-downtime releases and quick recovery time.

<b>Front-end Developer (Internship)</b>	<b>SoyYo Digital</b>	Mar 2023 - Oct 2023
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- Redesigned and developed a **React** personal digital card editor, improving user retention and implementing **ARIA** standards for accessibility compliance.
- Developed an internal admin panel using **React** to handle user management, account statistics, and membership administration for the sales team.

<b>Front-end Developer (Internship)</b>	<b>Transformación Digital</b>	Jun 2022 - Dec 2022
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- Developed a **Flutter** mobile app for ticket reservation, enabling users to reserve, view, and manage business tickets, and successfully published it to Google Play Store.

## Education

**Universidad Privada de Santa Cruz de la Sierra**

Bachelor's degree in Computer Science

Santa Cruz, Bolivia

Feb 2020 – Aug 2025

**Rainier High School**

Student exchange - GPA 3.6

Washington, USA

Aug 2018 – Jun 2019

## Academic Achievements

- Qualified for Bolivia's national ICPC contest in Tarija (Nov 2024) Tarija, Bolivia
- Representative of Bolivia in Huawei's Seeds for the Future (Aug 2024) San Salvador, El Salvador
- Silver Medal, XV UPSAMAT Mathematics Olympiad, UPSA (Sep 2019) Santa Cruz, Bolivia