

Sergio Loza Villarroel

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Skills

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

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

Tools: Linux · Git · PostgreSQL · Docker · Github Actions · AWS · REST APIs

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

Certificates & Courses: AWS AI Practitioner · Huawei HCIA Cloud Service · Oracle OCI Foundations Architect

Experience

Fullstack Developer

PISW

Oct 2024 - Present

- Developed a double-entry ledger financial engine in **TypeScript** for loan management, handling interest accrual, amortization scheduling, and prepayments with 95% test coverage.
- Built POS platform with **React** and **Hono**, implementing a custom query syntax parser for advanced inventory filtering.
- Provisioned production and QA server infrastructure on **AWS** through **CDK** for company services, including EC2, S3 buckets, KMS, and RDS (PostgreSQL), utilizing CloudWatch for monitoring.
- Implemented enterprise-grade authentication using **OIDC/Keycloak** across all company services.
- Modernized a legacy **C#** school management system by integrating electronic invoicing and developing a custom visual document engine (**WYSIWYG**) to automate the generation of regulatory forms for students.

Fullstack Developer

Ing. Cinavar y Consultora

Oct 2023 - Oct 2024

- Developed a vehicle inspection system with **React** and **Express**, for YPFB (Bolivia's largest energy company), currently processing 150+ daily inspections across the hydrocarbon transport network.
- Automated inspector reporting and alarm workflows and used **AWS Simple Email Service** to send reports and alarms, eliminating manual data entry and reducing report generation times from hours to seconds.
- Built CI/CD pipelines with **GitHub Actions** for automated deployments and **SQL Server** backups, ensuring zero-downtime releases and quick recovery time.

Front-end Developer (Internship)

SoyYo Digital

Mar 2023 - Oct 2023

- Redesigned and launched a digital business card presentation and editor interface in **React**, improving user satisfaction and implemented **ARIA** standards to increase accessibility compliance.
- Developed the internal admin panel, with functionalities for user management, account management, statistics, and membership administration for the sales team.

Front-end Developer (Internship)

Transformación Digital

Jun 2022 - Dec 2022

- 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

Rainier High School

Student exchange - GPA 3.6

Santa Cruz, Bolivia

Feb 2020 – Aug 2025

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