

# SERGIO MERCADO GALARZA

Backend Developer - English B2

draquio@gmail.com +591 76316027 Bolivia, Tarija [Linkedin](#) [Github](#) [Portfolio](#)

**Systems Engineer** with B2 English level, specialized in backend development. I apply principles of Clean Code, SOLID, and object-oriented programming (OOP) in my work and projects. I have more than 2 years of experience as a backend developer focused on building robust and efficient APIs using .NET Core and Node.js.

## EXPERIENCE

---

### RithmXO - Junior Backend Developer

October 2024 - Present

- Refactored and optimized a critical system module (+10,000 lines), **improving the performance** of the main "Actions" function.
- Developed new features and modules for the main production system.
- Optimized SQL queries and REST endpoints, improving response times and system stability.
- Implemented a console application to safely verify and delete archived data from the database.
- Actively participated in code reviews, proposing quality improvements.
- Collaborated with teams across Latin America and the U.S.

*Tools:* C#, .NET Core, SignalR, SQL Server, Docker, Git and GitHub

### Freelance Web Developer

2023 - 2025 (Occasional)

- Built landing pages and static websites using Next.js and Astro, optimized for SEO and performance.
- Implemented backend services with Node.js and Express, developing REST APIs for user verification and data storage through secure endpoints.
- Built a CV builder platform using Next.js, reaching thousands of monthly visits ([creatucv.dev](#)).
- Developed and maintained open-source projects, improving documentation, structure, and features.
- Continuous learning and adoption of new technologies focused on quality, scalability, and best practices.

*Tools:* HTML5, CSS3, JavaScript, React, Next, TypeScript, Tailwind, Node, Express, MongoDB and MySQL.

## EDUCATION

---

- Systems Engineering - Universidad Domingo Savio — 2016 - 2021
- English B2 - Centro Boliviano Americano (CBA) — 2017 - 2019
- Udemy Courses — 2024 - Present

## TECHNOLOGIES

---

- **Backend:** .NET Core (C#), PHP and Node.js (Express)
- **Databases:** MySQL, SQL Server, Postgres and MongoDB.
- **Learning Cloud:** Deployments on Azure and VPS, plus CI/CD with GitHub Actions
- **Frontend:** React, Typescript, NextJS, Angular and Astro.
- **Other Tools:** Unit testing, Git, GitHub, Docker, Docker Compose, Redis and RabbitMQ

## SOFTWARE ARCHITECTURES

---

- Layered Architecture
- Clean Architecture
- MVC Architecture
- Microservices Architecture

## PROJECTS

---

### URL Shortener – .NET Core + Clean Architecture + Reports

Development of a complete backend service built with .NET Core applying *Clean Architecture, CQRS, repository patterns, and dependency injection*.

- Generation of unique short links with database persistence
- Redirection endpoint with visit tracking
- Daily/weekly/monthly reporting
- Validations and layered separation focused on maintainability, scalability, and extensibility for new features

### URL Shortener New Version – Node.js & Express + JWT Authentication

Backend implementation of a URL shortener built with Node.js and Express, including user authentication and authorization using Prisma ORM and PostgreSQL.

- Authentication & Authorization
- Validations using Zod
- Dependency injection

### Chatz - Real-Time Chat (Full Stack)

Real-time chat application using React, Socket.IO, and Node.js, enabling instant messaging for users.

### Currency Converter - .NET Core + Redis + Docker

Microservice for currency conversion built with .NET Core, consuming third-party APIs.

- Redis caching to reduce repeated requests
- Endpoints for conversion and historical data lookup
- Date-range reporting and CSV export
- Docker Compose setup to run Redis + backend

All projects include public code and basic documentation in my portfolio.