

SERGIO MERCADO GALARZA

Backend Developer - English B2

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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 **over 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, Angular, SignalR, Nodejs, SQLServer, Postgres, 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.

TECHNOLOGIES

- **Backend:** .NET Core (C#), Php and NodeJs (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

EDUCATION

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

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.