

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 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

- Development of new features and modules for the main production software.
- Refactoring of existing code to improve maintainability, readability, and performance.
- Fixing bugs reported by QA.
- Optimization of SQL queries and API endpoints to improve response times.
- Active participation in code reviews and technical feedback.
- Use of C#, .NET Core, and SQL Server for building, maintaining, and enhancing the Rithm software.
- Use of Docker, Docker Compose, Git, and GitHub for development.
- Collaboration with LATAM and US teams, communicating in both Spanish and English.

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

Freelance Web Developer

2023 - 2025 (Occasional)

- I built landing pages using Next.js and Astro to leverage server-side rendering and its SEO benefits.
- I also worked on API and WebSocket integrations using Node.js with React and Next.js.
- In addition, I implemented a wide range of libraries such as Tailwind CSS, Redux, Zustand, Sass, and typed languages like TypeScript across multiple projects, collaborations, and professional work.

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
- Udemey Courses - 2024 - Present

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

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 and anonymous 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.