SERGIO MERCADO GALARZA

Systems Engineer - Full Stack 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

I developed features, contributed ideas, fixed bugs, and refactored code while collaborating with both the Latin American and U.S. teams in Spanish and English. The main programming languages and technologies I used include:

- C#, .NET Core, and SQL Server: focused on building, optimizing, and refactoring the core software.
- JavaScript, Node.js, and MySQL: used for backend development of various internal projects.

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

Freelance Web Developer. 2023 - 2025 (Occasional)

- I have developed a variety of static and dynamic websites for different clients and personal projects with strong community reach.
- 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
- Udemy Courses - 2024 - Present

TECHNOLOGIES

- **Backend:** .NET Core (C#), NodeJs, Express, Flask (Python), and PHP.
- **Databases:** MySQL, SQL Server, and MongoDB.
- **Frontend:** HTML5, CSS3, JavaScript, React, TypeScript, NextJS, and Angular.
- **Other Tools:** SEO, Git, GitHub, Figma, and Docker.
- **In Progress:** Spring Boot (Java) and NestJs.

SOFTWARE ARCHITECTURES

- Layered Architecture
- Clean Architecture
- MVC Architecture

PROJECTS

URL Shortener – .NET Core + Clean Architecture + Reports

Backend project built with .NET Core, Clean Architecture, CQRS pattern, dependency injection, and other patterns. It generates unique short links with redirection endpoints and provides daily, weekly, and monthly reports on link visits/clicks.

Link Shortener (New Version) - Node.js + Express + JWT Auth

Backend for a link shortener built with Node.js and Express, featuring user authentication and authorization. Uses Prisma as ORM and PostgreSQL as the database.

- Authentication and authorization
- Validations with Zod
- Dependency injection

Chatz - Real-Time Chat (Full Stack)

Real-time chat application enabling user communication via WebSocket. Users can set a username and join rooms. Frontend built with React, backend with Node.js and Socket.io.

Currency Converter - .NET Core + Redis + Docker

Backend for a currency converter built with .NET Core, using Redis to cache responses from a third-party API with real-time exchange rates.

- Caching with Redis
- Docker with Docker Compose (to deploy backend and Redis)
- Custom date-range reports
- Export reports to CSV