

SERGIO MERCADO GALARZA

Backend Developer - English B2

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PROFESSIONAL PROFILE

Backend Developer specialized in **.NET Core and Node.js**, with 3 years of experience building scalable APIs in production environments. Currently optimizing systems at RithmXO and developing CreaTuCV, a SaaS with thousands of users that integrates AI, ATS analysis, and a full-stack architecture deployed on a VPS, **demonstrating end-to-end ownership from system design to production**

EXPERIENCE

Backend Developer .NET — RithmXO (Remote)

Oct 2024 – Present

- Refactored a critical module with 10,000+ lines of code, significantly improving the performance of the core "Actions" function.
- Developed new features and modules for the main production software.
- Optimized SQL queries, LinQ and REST endpoints, reducing response times and improving system stability.
- Built console applications in C# for verification, migration and safe cleanup of archived data in the production database.
- Created functional prototypes in Angular to validate new product features before full implementation.
- Actively participated in code reviews, collaborating bilingually (English/Spanish) with distributed teams across LATAM and the USA.

Founder & Full Stack Developer — CreaTuCV (SaaS)

2024 – Present

Built and operate a CV generation SaaS with thousands of monthly users, owning the full stack from architecture to production deployment.

- AI-powered CV import (Google Gemini API) with ATS matching using fuzzy search, alias resolution and bilingual synonyms
- Real-time CV scoring system (0-100) with 7 independent analyzers using Strategy Pattern
- ATS Checker with multi-level keyword matching — exact, fuzzy (Levenshtein) and bilingual synonyms — with per-category weighting and missing keyword suggestions
- Backend: .NET 9, PostgreSQL + EF Core 9, JWT + OAuth2, Docker, CI/CD via GitHub Actions
- Frontend: Next.js, React, Tailwind CSS, Zustand, TipTap, NextAuth
- Production-ready: rate limiting, health checks, Serilog, background tasks, xUnit test suite

Freelance Web Developer Full Sack

2023 – 2024

- Built landing pages and static websites using Next.js and Astro, optimized for SEO and Core Web Vitals performance.
- Developed REST APIs with Node.js and Express for user authentication, data storage and secure endpoints.
- Maintained open-source projects improving documentation, architecture and code quality.

EDUCATION

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

TECHNOLOGIES

- **Backend:** .NET Core (C#), Node.js (Express) and PHP
- **Databases:** SQL Server, PostgreSQL, MySQL, MongoDB and Redis
- **Frontend:** React, TypeScript, Next.js, Angular, Astro and Tailwind CSS
- **DevOps / Cloud:** Docker, Docker Compose, GitHub Actions, CI/CD, Azure, VPS
- **Testing:** xUnit, Jest, Vitest, React Testing Library, Cypress
- **Other:** Git, GitHub, RabbitMQ, SignalR, Prisma ORM

TECHNICAL PROJECTS / PORTFOLIO

BookStore Microservices — .NET 9 · Microservices · Clean Architecture · Docker

- Built a distributed microservices platform with independent deployment per service, each with its own database (PostgreSQL, SQL Server, MySQL) following polyglot persistence.
- Implemented CQRS with MediatR and an API Gateway using YARP, reducing inter-service coupling and centralizing routing across 3 services.
- Designed inter-service HTTP communication with graceful degradation, ensuring cart enrichment never crashes on downstream failures.

Link Shortener v2 — Node.js · TypeScript · JWT · Redis · Prisma

- Built a production-ready URL shortening REST API with layered architecture (Controller 'Service' Repository) and full type safety via TypeScript and Zod validation.
- Implemented JWT authentication with access tokens (1h) and refresh tokens (7d), including database-tracked revocation and email verification flow.
- Integrated Redis caching for short code lookups and visit tracking per link with IP geolocation, reducing database load on high-frequency redirects.

PollingApp — .NET 8 · Clean Architecture · CQRS · SignalR

- Architected a 4-layer Clean Architecture solution (Domain, Application, Infrastructure, WebApi) with zero outward dependencies from the domain layer.
- Applied Aggregate Root and Factory patterns to enforce domain invariants, preventing invalid poll states at the model level.
- Built IP-based rate limiting (1 vote / IP / 24h) and paginated list endpoints with a SignalR hub ready for real-time vote broadcasting.

More projects available at sergiomercado.dev