

SERGIO MERCADO GALARZA

Backend Developer .NET / Node.js | APIs | PostgreSQL | Docker | English B2

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Backend Developer with +3 years of experience building APIs, optimizing production systems, and developing SaaS solutions with .NET, Node.js, PostgreSQL, and Docker. Currently working at RithmXO, where I contribute to refactoring, performance optimization, data migration, and backend feature development. In parallel, I built and operate CreaTuCV, a SaaS with thousands of monthly users that integrates AI, ATS analysis, payments, authentication, and automated deployment to a VPS.

EXPERIENCE

Backend Developer — RithmXO — Remote

Oct 2024 – Present

- Refactored a critical module with over 10,000 lines of code, improving the performance of the core “Actions” function by 50% in a production background process.
- Developed new backend features and modules for the main production software.
- Optimized SQL queries, LINQ, and REST endpoints, reducing response times by up to 50% in load tests with 500 concurrent requests.
- Built C# console applications for data verification, migration, and safe cleanup in production databases.
- Created functional Angular prototypes to validate new product features before final implementation.
- Participated in code reviews in English and Spanish with distributed teams across Latin America and the United States.

SaaS Builder & Full Stack Developer — CreaTuCV

2024 – Present

Built and operate a SaaS for CV creation, analysis, and optimization with thousands of monthly users, owning the product end-to-end from architecture to production deployment.

- Designed the full-stack architecture using .NET 9, PostgreSQL, Next.js, Docker, and CI/CD deployment to a VPS.
- Implemented AI-powered CV import with PDF parsing, automatic language detection, and structured JSON data extraction.
- Developed an ATS Checker that compares CVs against job descriptions and provides improvement suggestions using exact matching, fuzzy matching, and bilingual synonyms.
- Built a real-time CV Score system with independent analyzers, reducing unnecessary AI usage and operational costs.
- Integrated monetization through a credits system, Premium plan, checkout, and billing portal using Lemon Squeezy.
- Implemented production features such as Google authentication, transactional emails, rate limiting, health checks, structured logging, soft deletes, and xUnit testing.

Freelance Full Stack Web Developer

2023 – 2024

- Built landing pages, static websites, and web applications using Next.js, Astro, and React, focusing on performance, SEO, and Core Web Vitals.
- Built REST APIs with Node.js and Express for user authentication, data storage, and secure endpoint management.
- Maintained and improved open-source projects by enhancing documentation, architecture, and code quality.

TECHNOLOGIES

- **Backend:** .NET / C#, Node.js, Express, REST APIs, LINQ, Entity Framework Core
- **Frontend:** React, TypeScript, Next.js, Angular, Astro, Tailwind CSS
- **Databases:** PostgreSQL, SQL Server, MySQL, MongoDB, Redis
- **DevOps / Cloud:** Docker, Docker Compose, GitHub Actions, CI/CD, Azure, VPS
- **Testing:** xUnit, Jest, Vitest, React Testing Library, Cypress
- **AI & Integrations:** OpenAI, Gemini, DeepSeek, Resend, Lemon Squeezy, MaxMind GeoIP2
- **Other:** Git, GitHub, RabbitMQ, SignalR, Prisma ORM

TECHNICAL PROJECTS / PORTFOLIO

BookStore Microservices — .NET 9 · Microservices · Docker

- Built a distributed microservices platform with independently deployable services, each using its own database with PostgreSQL, SQL Server, and MySQL.
- Implemented CQRS with MediatR and an API Gateway using YARP to centralize routing and reduce coupling between services.
- Designed inter-service HTTP communication with graceful degradation, preventing downstream service failures from interrupting the main cart flow.

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

- Built a URL shortening REST API with layered architecture, full TypeScript type safety, and data validation using Zod.
- Implemented JWT authentication with access tokens, refresh tokens, database-tracked revocation, and email verification.
- Integrated Redis to cache redirects and track visits with IP geolocation, reducing database load in high-traffic scenarios.

More projects available at sergiomercado.dev

EDUCATION

- Systems Engineering - Universidad Domingo Savio — 2016 - 2021
- English B2 - Centro Boliviano Americano (CBA) — 2017 - 2019
- Continuous learning in backend development, architecture, cloud, and web development — 2021 - Present