

ALAN LOPEZ BARRIENTOS

Full Stack Developer

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PROFESSIONAL PROFILE

Fullstack Developer with 2+ years of experience in C# (.NET / .NET Core) and modern JavaScript/TypeScript frameworks such as Nest, Next, React, and Astro. Focused on clean code, design patterns, testing (unit and e2e), and Docker-based deployment.

EDUCATION - UT CANCUN

- Multiplatform Software Development - 2 years (2017–2019)
- Software Development and Management Engineering - 1 year 8 months (2020–2022)

EXPERIENCE

America Car Rental – Trainee (2022 - 2023)

Contributed to the development of an integrated system for registering new clients (brokers) in the main platform. Assisted in containerizing a legacy PHP application built with Yii Framework, improving development and deployment workflows.

Tools: HTML5, CSS3, JavaScript, TypeScript, React, PHP, Yii Framework (Legacy), Bootstrap, Node.js, MySQL

Santi Soluciones – Junior Developer (Jun 2023 - Dec 2025)

Developed new features and refactored code in C# and JavaScript across multiple projects. Collaborated in solution design, code reviews, and technical planning during team meetings.

Tools: C#, ASP.NET, .NET Core, SignalR, SQL Server, Docker, Git, Azure DevOps

SKILLS

- **Languages:** C#, JavaScript, TypeScript
- **Backend:** .NET, .NET Core, NestJS, FastAPI, microservices development
- **Frontend:** React, Next.js, Astro, state management with TanStack Query, Zustand, and Redux
- **Databases:** SQL Server, PostgreSQL, MySQL, SQLite, MongoDB
- **Testing:** Jest, Vitest (unit and e2e testing)
- **DevOps / Others:** Git, Docker, SOLID principles, Clean Architecture, Design Patterns

PROJECTS

E-commerce Platform – Backend with NestJS

Designed a microservices-based backend architecture using NATS for messaging and a central Gateway for inter-service communication. Implemented Stripe payment integration, CI/CD pipelines with Google Cloud services, and automated deployment using HELM within a Kubernetes cluster (GKE).

Clothing Store – Backend with NestJS

Developed an e-commerce platform focused on inventory management and JWT-based authentication. Implemented image handling, real-time communication via WebSockets, and data persistence using PostgreSQL with TypeORM. Added unit testing with Jest to ensure code quality.

Legacy System Modernization – Dockerization of an ASP.NET Web Forms Application

Successfully led the containerization of a legacy ASP.NET Web Forms application using PowerShell scripts, integrating Crystal Reports as a runtime dependency. The solution improved portability and streamlined the deployment workflow.