

CARLOS ALBERTO SANCHEZ ALZATE

Full-Stack .NET Developer

Contact Information:

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City of Residence: Medellin - Colombia

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GitHub: <https://github.com/CarlosDev0>

Sample Application: <https://startling-empanada-b120a8.netlify.app/>

PROFESSIONAL SUMMARY

Full-stack developer with 7+ years of experience building scalable web applications using **.NET (Core, 6–9), C#, SQL Server, MongoDB**, and modern JavaScript frameworks such as **React, Next.js**, and **Angular**. Strong focus on backend development, cloud services (AWS, Azure), microservices, authentication (JWT, OAuth), and CI/CD using GitHub Actions or Azure DevOps.

Skilled in developing APIs, integrating external services, optimizing performance, and applying clean coding practices. Known for problem-solving, ownership, and delivering production-ready solutions.

Recently expanded expertise into **AI-assisted development, Python microservices, vector databases, embeddings, and LLM-based automation**. Experienced building backend services with **FastAPI**, implementing **retrieval-augmented generation (RAG) with ChromaDB**, and creating **LangChain pipelines, decision flows, and lightweight AI agents** to improve system intelligence and automation.

CORE TECHNICAL SKILLS

Languages: C#, JavaScript, TypeScript, SQL, Python (intermediate)

Frontend: React, Next.js, Angular, Redux Toolkit, JavaScript, JQuery, HTML5, CSS3, SCSS

Backend: .Net Framework, .NET 6–9, ASP.NET Core Web API, Entity Framework, LINQ, REST

Cloud & DevOps: AWS (Lambda, IAM, S3, EC2, CloudWatch), Azure (DevOps, pipeline, Functions, vault, app service, blob storage, queue storage, service bus, redis, cosmosDB, sql, Semantic Kernel), Docker, Kubernetes (basic), Terraform. GCP ()

Databases: SQL Server, MongoDB, DynamoDB, Redis, PostgreSQL, MySQL, MariaDB, CosmosDB

Architecture: Clean Architecture, DDD basics, Microservices, Serverless

AI / LLM / Data Engineering: Python (FastAPI), ChromaDB, LangChain, LLM prompts & orchestration
Vector search, embeddings, RAG pipelines, decision flows; OpenAI / Azure OpenAI (GPT-4/5), Function Calling, AI agents; prompt engineering.

Tools / Other: Git, GitHub Actions, Postman, Swagger, JWT, OAuth, Polly, HttpClientFactory

Career History

GLOBANT, Medellin, Colombia

Jan. 2022 –

Full Stack Engineer

I have been involved in several projects working with different technologies and frameworks, always maintaining a growth mindset and a desire to learn.

Projects in Globant:

April 2025 – **Present** Client: **Disney Parks**

- I drove **full-stack development** for critical retail applications, specializing in designing and

deploying high-reliability **.NET 8/9 microservices** built on **Clean Architecture** principles and developed resilient **image-processing APIs** integrated with external services, enhancing system stability through the implementation of **Polly, structured error handling, and robust caching** strategies across **MongoDB, MariaDB, and Redis**. My contributions included **modernizing legacy codebases** and creating a complex **image processing web application from scratch** using **React/Next.js**. I consistently elevated code quality by developing comprehensive **automated testing suites (NUnit/Moq)** and streamlined deployment by utilizing **Docker containers**.

- Utilized modern AI assistants like Copilot, Cursor and Windsurf.
- Collaborated with cross-functional teams to continuously improve security, API gateways, and cloud architecture. Intensive use of vibe code and prompt engineering. Code Review.
- **Tech stack:** .NET 8 & 9, AWS Lambda, Jenkins, DynamoDB, MariaDB, Docker, Angular, TypeScript, Github, NUnit, Swagger, Maui.

November 2024 – March 2025 Client: **Fédération Internationale de Football Association -FIFA**

- I worked in an international team to develop a high availability application called "inside.fifa.com" using best practices and cutting-edge technology.
- I developed Azure Functions implementing new functionality to upload and download Excel files to the Azure Blob Container, making changes in both backend (Azure Functions .NET 8) and frontend (React, Next.js, Vite and TypeScript); I used Redis for caching, which reduced response times for repetitive requests, and Kafka (MSK) to decouple services.
- **Tech Stack:** .NET 8, Azure functions, contentful, Azure blob containers, Redis, PostgreSQL, docker, Kubernetes, react, typeScript, redis, microservices, kafka, github, Swagger.

Sept 2023 – October 2024

Client: **Fluor Inc**

- Built full-stack web application to manage project man-hours and costs using .NET, React, Angular (SPA) and SQL Server collaborating with distributed teams across multiple time zones. Developed RESTful APIs and microservices with .NET Core, improving API response times by 50% through optimization and caching strategies. Delivered features across the entire stack (frontend, backend, database), while maintaining high code quality through rigorous testing and peer reviews. Reduced production incidents by 45% through proactive bug investigation, root-cause analysis, and implementation of preventive measures. Utilized Docker for containerization and GitHub for version control, establishing streamlined development workflows and CI/CD pipelines. Implemented and debugged complex business rules.
- **Tech Stack:** SQL Server (T-SQL), .NET, React, Angular.JS, Docker, GitHub

Nov 2022 – July 2023

Client: **DirectTV**

- Built scalable REST APIs and .NET applications (.NET Core, .NET Framework) with a SQL Server backend, collaborating with agile teams on sprint planning and delivery. Led project initialization and stabilization phases, implementing robust error handling, logging, and monitoring, which improved system reliability from 95% to 99.5%. Orchestrated complex integrations with third-party CMS platforms by developing custom adapters and middleware solutions for seamless data synchronization. Implemented a containerized development environment with Docker and automated CI/CD workflows using GitHub Actions, reducing deployment failures by 80%.
- **Tech stack:** .NET Core, .Net Framework, SqlServer (T-SQL), Docker, Adobe AEM, GitHub, Swagger.

May 2022 – October 2022

Client: **WellSky**

- Built cloud-native microservices using .NET 5, Kafka (MSK), and PostgreSQL on AWS, handling over one million daily transactions across distributed systems. Designed event-driven architecture with Kafka publisher-subscriber pattern, orchestrating asynchronous communication between 10+ microservices for real-time data processing. Developed comprehensive unit test suites with NUnit, implementing TDD methodology and achieving over 90% test coverage across all services. Created automated CI/CD pipelines with Azure DevOps and GitHub, enabling seamless deployments to AWS ECS with zero-downtime releases. Implemented Infrastructure as Code with

Terraform to provision AWS resources (ECS, MSK, RDS, VPC), ensuring consistent and repeatable environment configurations. Containerized applications with Docker and deployed to Kubernetes clusters, implementing health checks, auto-scaling, and rolling updates for high availability. Delivered production support and resolved complex technical issues, collaborating with stakeholders to ensure system reliability and performance.

- **Tech stack:** .Net 5, PostgreSQL, AWS, NUnit, MSK, Azure Pipelines, FlywayDB, Docker, GitHub

Feb 2022 – May 2022

Client: **Deloitte**

- Maintained and optimized .NET applications on Azure with SQL Server, implementing DDD principles and achieving 80%+ NUnit test coverage. Established Azure DevOps CI/CD pipelines for automated testing and deployment. Resolved production issues through systematic root-cause analysis, reducing critical bugs by 40%. Utilized Docker and Kubernetes for containerized development, ensuring environment consistency and rapid deployment cycles.
- **Tech stack:** .NET, Azure, Sql Server, Azure Devops, NUnit, Docker Kubernetes

ALGARTECH COLOMBIA, Medellín, Colombia

Dic. 2018 – January 2022

Senior Developer .NET

Client: **Marketing Personal (Retail) & Lafrancol (Pharmaceutical)**

- I contributed to the design and development of critical applications for a retail and pharmaceutical company. My work involved defining new API architectures and leading the design and implementation of a dedicated application for product returns and exchanges. I developed robust REST APIs from scratch using C# and delivered across multiple platforms, including Web and Desktop applications. My full-stack expertise included creating new functionalities in the backend, frontend (Javascript, JQuery, HTML), and database (SQL Server/T-SQL), complemented by implementing Unit Tests (NUnit) to ensure code quality. I utilized TFS and GitHub for version control.
- **Tech stack:** Javascript, JQuery, HTML, .NET framework 4.7, .Net core 3.1, Sql Server, Xamarin, NUnit, Swagger, GitHub, Postman, Fiddler, Mic reporting service.

INDUSTRIAS HACEB S.A., Medellín, Colombia

Sept. 2002 – Jul. 2016

Research Analyst

- Taking the lead in research projects for new technologies to update the process of the company.
- Improvement of several processes with up-to-date manufacturing technology.

Education

Universidad de Antioquia, Medellín, Colombia

Jan. 2016 – Dec. 2022

BS, Computer Science

CENSA, Medellín, Colombia

Jan. 2018 – Dec. 2019

Software Development Technician

Escuela de Ingeniería de Antioquia, Medellín, Colombia

Feb. 2005 – Dec. 2006

MSc, Management Process Specialization

Universidad Nacional de Colombia, Medellín, Colombia

Feb. 1996 – Mar. 2001

BS, Industrial Engineering

Latest Courses: Copilot Programming, The impact of AI on software development; Serverless Mindset., AWS, Azure, C#.

References:

Jeffryt Rubiano.

Technical Leader Globant

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Luis Gutierrez

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CARLOS ALBERTO SANCHEZ ALZATE
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.NET AND FULL STACK DEVELOPER

Dear Hiring Manager,

I am writing to express my interest in the position available at your company. With 7 years of professional experience as a senior .NET software developer and full-stack developer and 20 years in the sector, I am confident in my ability to contribute to your team and deliver high-quality results.

In addition to my software development expertise, I have demonstrated proficiency in Web APIs, Windows services, microservices, serverless architectures, showcasing my comprehensive understanding of system infrastructure. I am also experienced in developing desktop applications, which highlights my ability to deliver comprehensive and diverse IT solutions, including web applications with front-end, back-end, and database components, and being able to design and implement highly scalable services with low latency and low maintenance costs.

I have worked for different companies across sectors such as retail, healthcare, and entertainment and have successfully applied Agile methodologies, including Scrum, in my projects. Likewise, I adhere to best practices such as SOLID principles, object-oriented programming (OOP), design patterns, unit testing, clean architecture, and continuous integration/continuous deployment (CI/CD).

My experience as a Full Stack Engineer has prepared me to utilize these skills: effective communication, problem-solving, and teamwork.

My passion for this field, combined with my respect for your company's work, makes me eager to join your team.

Best regards,

Carlos Alberto Sanchez